

College
of
Arts
and
Sciences



BRANDEIS UNIVERSITY BULLETIN 67/68

SEPTEMBER 15, 1967

COVER: *The statue of Louis Dembitz Brandeis on the Brandeis University campus executed by Robert Berks under a commission from Lawrence A. Wien of New York. Dedicated by Chief Justice Earl Warren on the 100th anniversary of the birth of Brandeis, November 1956.*

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Brandeis University

College
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Arts
and
Sciences
1967/1968

W A L T H A M , M A S S A C H U S E T T S



“It must always be rich in goals and ideals, seemingly attainable but beyond immediate reach. . . .

“It must become truly a seat of learning where research is pursued, books written and the creative instinct is aroused, encouraged and developed in its faculty and students.

“It must ever be mindful that education is a precious treasure transmitted—a sacred trust to be held, used and enjoyed, and, if possible, strengthened, then passed on to others upon the same trust.”

—from the writings of
LOUIS DEMBITZ BRANDEIS (1856-1941)
on the goals of a university.

“Brandeis will be an institution of quality, where the integrity of learning, of research, of writing, of teaching, will not be compromised. An institution bearing the name of Justice Brandeis must be dedicated to conscientiousness in research and to honesty in the exploration of truth to its innermost parts.

“Brandeis University will be a school of the spirit—a school in which the temper and climate of the mind will take precedence over the acquisition of skills and the development of techniques.

“Brandeis will be a dwelling place of permanent values—those few unchanging values of beauty, of righteousness, of freedom, which man has ever sought to attain.

“Brandeis will offer its opportunities of learning to all. Neither student body nor faculty will ever be chosen on the basis of population proportions, whether ethnic or religious or economic.”

—PRESIDENT ABRAM L. SACHAR, at the ceremonies inaugurating
Brandeis University, October 8, 1948





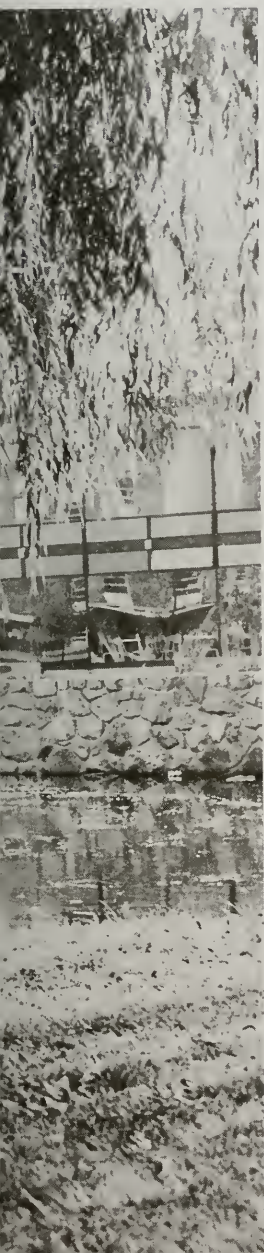


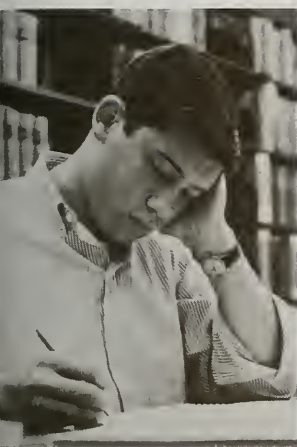
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Academic Calendar 1967-1968

Fall Term

Sunday	September 17	New students arrive on campus. President's banquet.
Monday	September 18	New students register. Placement examinations and conferences.
Tuesday	September 19	Opening lectures for new students. Physical examinations. Returning students arrive on campus.
Wednesday	September 20	Lectures for new students. Returning students register 8:00 A.M.- 12:00 Noon. New students enroll in sections, Shapiro Athletic Center, 1:00 P.M.-3:00 P.M. Returning students enroll in sections 3:00 P.M.-5:00 P.M.
Thursday	September 21	} Opening days of instruction in all courses. Unless noted otherwise no section meetings until the following week.
Friday	September 22	
Thursday	September 28	Freshmen study cards due no later than 5:00 P.M.
Friday	September 29	Upperclass study cards due no later than 5:00 P.M.
Wednesday	October 4	Last day on which a student may make a program change without a fee of \$5.00.
Thursday	October 5	} No University exercises.
Friday	October 6	
Thursday	October 19	No University exercises.
Friday	October 20	Last day on which a student may make a program change with a fee of \$5.00. No student may enter a course in the Fall term 1967-1968 after this date.
Thursday	October 26	No University exercises.
Friday	November 3	Grades for work incomplete previous June due in the Office of the Registrar.
Friday	November 17	Midterm grades due.
Thursday	November 23	} No University exercises.
Friday	November 24	
Friday	December 22	Winter recess begins after last class.
Wednesday	January 3	Classes resume.
Monday	January 15	No University exercises.
Tuesday-	January 16-	} Mid-Year Examinations.
Friday	January 26	

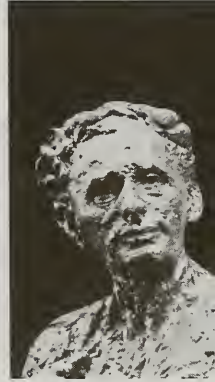


Spring Term

Wednesday	January 31	} Opening days of instruction in all courses in the Spring term.
Thursday	February 1	
Thursday	February 8	Freshmen study cards due no later than 5:00 P.M.
Friday	February 9	Upperclass study cards due no later than 5:00 P.M.
Tuesday	February 13	Last day on which a student may make a program change without a fee of \$5.00.
Thursday	February 22	No University exercises.
Tuesday	February 27	Last day on which a student may make a program change with a fee of \$5.00.
		No student may enter a course in the Spring term 1967-1968 after this date.
Tuesday	March 12	Grades for work incomplete at the end of the Fall term due in the Office of the Registrar.
Tuesday	March 26	Midterm grades due.
Thursday	April 11	Spring recess begins after the last class.
Monday	April 22	Classes resume.
Friday	May 3	Freshmen plans of study and all preregistration cards due.
Thursday	May 30	No University exercises.
Tuesday-Friday	May 21-May 31	} Final examinations.
Saturday	June 8	
Sunday	June 9	Baccalaureate.
		Commencement.



Brandeis University



Brandeis University has set itself to develop the whole man, the sensitive, cultured, open-minded citizen who grounds his thinking in facts, who is intellectually and spiritually aware, who believes that life is significant, and who is concerned about society and the role he will play in it.

The University will not give priority to the molding of vocational skills, nor to developing specialized interests at the expense of a solid general background. This does not mean that what is termed practical or useful is to be ignored. Brandeis merely seeks to avoid specialization unrelated to our basic heritage—its humanities, its social sciences, its sciences and its creative arts. For otherwise, fragmentized men, with the compartmentalized point of view that has been the bane of contemporary life, are created.

A realistic educational system must offer adequate opportunity for personal fulfillment. Education at Brandeis encourages this drive for personal fulfillment, but only within the framework of social responsibility. Thus Brandeis seeks to educate men and women who will be practical enough to cope with the problems of a technological civilization, yet mellowed by the values of a long historical heritage; self-sufficient to the point of intellectual independence, yet fully prepared to assume the responsibilities society imposes.

Brandeis University came into being because of the desire of American Jewry to make a corporate contribution to higher education in the tradition of the great American secular universities that have stemmed from denominational generosity. By choosing its faculty on the basis of capacity and creativity, and its students according to the criteria of academic merit and promise, the University hopes to create an environment which may cause the pursuit of learning to issue in wisdom.



The Famous Three Chapels

This initial and unwavering commitment to excellence has earned early acceptance for the University within academic circles. Full accreditation came to Brandeis at the earliest possible moment. In 1961, Phi Beta Kappa granted permission for a chapter (Mu of Massachusetts) to be formed on its campus. Most recently the Ford Foundation assessed the record and potential of the University and buttressed their belief in its future with two major challenge grants to Brandeis for academic excellence, an accolade accorded to only five universities in the nation.

University Organization

Brandeis is one of the few small universities in the United States. The academic programs, described below, are each limited in size to encourage quality and integrity of intellectual achievement. There is constant interaction between college, graduate and professional schools, and institutes. The accomplishments of one set automatic pace for the others, and the interchange benefits all, creating an intellectual environment of decided vitality. Additionally, the organic richness of the extensive research activity fertilizes the undergraduate root of the institution no less than the graduate and professional programs.

The College of Arts and Sciences

In keeping with its general objectives, Brandeis attaches the greatest of importance to the liberal arts curriculum. It is designed to offer full academic opportunities for those students planning to pursue graduate or professional studies as well as those whose educational objective is the baccalaureate degree.

The College of Arts and Sciences offers instruction in the Schools of Creative Arts, Humanities, Social Science and Science. Regularly matriculated students pursuing courses of instruction under the Faculty of Arts and Sciences may, upon satisfactory completion of the first year, continue as candidates for the Bachelor of Arts degree.

Established in 1948, full accreditation was received by Brandeis' College of Arts and Sciences from the New England Association of Colleges and Secondary Schools in 1953.

The Graduate School of Arts and Sciences

The Graduate School is designed to educate broadly as it trains professionally. It is sensitive to the fact that as specialization increases within society, the traditional boundaries between the Ph.D. and advanced professional degrees are gradually losing their distinctions. It seeks to achieve a spirit of informality, without sacrificing work disciplines.

The Graduate School of Arts and Sciences offers courses of study leading to the master's and doctor's degrees. Graduate areas include Anthropology, Astro-Physics, Biochemistry, Biology, Biophysics, Chemistry, Contemporary Jewish Studies, English and American Literature, History of American Civilization, History of Ideas, Mathematics, Mediterranean Studies, Music, Near Eastern and Judaic Studies, Philosophy, Physics, Politics, Psychology, Sociology and Theater Arts.

(Full information is available in the catalog of the Graduate School of Arts and Sciences.)

The Florence Heller Graduate School for Advanced Studies in Social Welfare

The Florence Heller Graduate School for Advanced Studies in Social Welfare, made possible through the generous grant of the late Mrs. Florence Heller of Chicago, was established at Brandeis University in 1959. Applicants are required to have earned the degree of Master of Social Work at an accredited school and, preferably, to have had experience on a professional level. The program of study leads to the doctorate and is designed to qualify graduates for administrative and consultative roles in established areas of social work, as well as newly emergent areas such as international social work, inter-group organization, labor, industry and government. Emphasis is placed upon community organization, social work administration, and research, making full use of the social sciences.

Beginning in September, 1968, a pre-doctoral program will also be inaugurated. Students will be accepted who do not have an advanced degree and who wish to study for the doctorate. These students will receive the degree

of Master of Social Work during the period of doctoral study when they complete the requirements for the Master's degree.

(Full information is available in the catalog of the Heller Graduate School.)

The Kutz School of Biology

The Milton and Hattie Kutz School of Biology was made possible through a gift from the estate of the late Hattie Kutz of Wilmington, Del., who, had previously underwritten a major dining hall-lounge at Brandeis. The School encompasses the University's undergraduate and graduate biology departments. The biology curricula present a comprehensive body of courses that advance from fundamental studies to more complex areas with special heed to new discoveries and the results of current experimentation.

Students are offered a well-conceived balance between traditional background in biology and the thorough discussion of new knowledge constantly developing in this discipline. They are also encouraged to engage in original research and independent study. The biology program, directed and taught by first-rank scientists, also provides research and teaching opportunities for a large number of post doctoral fellows.

A sizable portion of the governmental, industrial and private research grants awarded to the University are devoted to varied projects in biology, including cancer research. Distinguished scientists appear frequently at colloquia and lectures to explain their investigations.

Lown School of Near Eastern and Judaic Studies

Created through the generosity of Philip W. Lown of West Newton, Massachusetts, the Lown School of Near Eastern and Judaic Studies encompasses an intensive teaching and research program in ancient and modern Jewish thought, history, culture and issues. The University has assembled an array of distinguished scholars who, on both the undergraduate and graduate level, offer an extremely broad complex of programs designed to prepare them for scholarly careers or for communal service.

The School includes the Center for Contemporary Jewish Studies, organized for the specific purpose of furthering research and seminars dealing with major contemporary issues. An adjunct of the Center, the Institute of East European Jewish Affairs, is a research program studying the lives and destiny of some three million Jews living in East Europe. Another activity of the School is the Institute for Advanced Judaic Studies, which sponsors research, lecture, colloquia and related publications, as well as offering a number of postdoctoral fellowships.

The Lown School of Near Eastern and Judaic Studies cooperates closely with the American Jewish Historical Society, whose headquarters building on the Brandeis University campus will be completed during 1967.

The Poses School of Fine Arts

The Poses School of Fine Arts, established through a gift from Mr. and Mrs. Jack I. Poses of New York City, embodies the broad undergraduate curriculum in the fine arts. It also incorporates the Poses Institute of Fine Arts, which supplements course-work and workshops in painting and sculpture. Plans for launching a graduate program are now under study.

The undergraduate program in fine arts provides a substantial area of studies in the form and meaning of art from the present day to antiquity. The program stresses individual creativity and the varied techniques of the artist.

The Poses Institute of Fine Arts is host to exhibitions of paintings, sculpture, artifacts and other forms of contemporary and traditional art in the University's museum and many gallery halls. It is the focus of the Brandeis art acquisitions program and conducts lecture series and symposia with notable historians, critics and artists. Its annual institutes are concerned with basic issues in the arts and contemporary life.

Medical Science Research Center

Of the more than nine million dollars in research grants currently in effect at Brandeis, a good deal more than half supports faculty research projects which are of direct and indirect importance and significance to medical science. Medically oriented work is being carried on, not only in biochemistry, biology, chemistry and microbiology, but in psychology, sociology and in the University's Florence Heller Graduate School for Advanced Studies in Social Welfare.

Under a Commonwealth Fund study grant, the University carefully scrutinized a variety of ways in which it might make major contributions to medicine. As a result of the study, it has been decided to create a Medical Science Research Center for the University to build from its already highly esteemed strength in basic research.

In its first stages the Center's activities will be relatively modest, seeking to draw together Brandeis faculty whose research work is medically related, and to bring about a better coordination, without diminution of present teaching responsibilities or altering important research projects already under way. But simultaneously, under the leadership of a Director and the advice of a Faculty Council, the Center will gradually broaden its scope, encouraging new research, inviting the participation of distinguished scholars

and medical scientists, offering hospitality for younger researchers at a fellowship level, sponsoring symposia and colloquia and underwriting scholarly publication. Hopefully, a vital Medical Research Center will evolve.

Related Academic Programs

Jacob Hiatt Institute in Israel

The University conducts an annual semester Institute in Israel. Open to college and university juniors and selected seniors who have completed introductory courses in political science, sociology, or social psychology, the Institute offers instruction in modern Jewish and Israel history, Israel political and social institutions and the Hebrew language.

Made possible by Mr. and Mrs. Jacob Hiatt of Worcester, Mass. the Institute, which is located in Jerusalem and directed by Brandeis faculty, is unique in that it emphasizes first-hand investigation. Formal classroom work is supplemented by seminars with persons prominent in Israel's political and economic life, and fieldwork is conducted at on-the-spot locations such as factories, seaports, labor councils, agricultural settlements, Arab and Christian communities, army training centers and mineralogical exploration points in the Negev Desert.

Enrollment in the Hiatt Institute is also open to a limited number of qualified students from other colleges and universities. Among the colleges and universities, in addition to Brandeis, from which students have come to study at the Jacob Hiatt Institute in Israel are: Antioch, Boston University, Brooklyn College, Brown University, Bryn Mawr, University of California, City College of New York, Carleton, Clark, Colby, Cornell, Dickinson, Goucher, Harvard, Hunter, University of Illinois, Jackson College (Tufts University), Massachusetts Institute of Technology, Oberlin, Ohio State, University of Pennsylvania, Reed, Temple, Vanderbilt, University of Vermont, Washington University, Wayne State, Wesleyan and University of Wisconsin.

Wien International Scholarship and Fellowship Program

The Wien International Scholarship Program, created in 1958 by the Lawrence A. and Mae Wien Fund, is designed to further international understanding, to provide foreign students with opportunities for study in the United States, and to enrich the intellectual and cultural life of the Brandeis campus.

The Program permits the University to offer scholarships and fellowships on the undergraduate and graduate levels. The undergraduate scholarship covers the basic costs of tuition, on-campus board and room, and standard student fees. In some instances, based upon financial need, the grant may be extended to include book allowances, a weekly maintenance allowance,



A classroom session in the nursery school

and—on very rare occasions—travel. Awards made for a single academic year to students who are candidates for a degree may be renewed upon application. Renewals may be granted by the Committee on the Admission of Wien Scholars and its decision is final.

Undergraduate applicants may also be accepted as Special Students. Such students must have completed at least the first degree in their home countries. With the consent of the Director of the Program, they may then take courses at Brandeis which do not duplicate those studied at their home universities. Grants for Special Students are given for only one year and may not be renewed. It is expected that Special Students will apply for this “year abroad” in order to enhance and complement work taken in their own countries, and that these students will return to their home universities when their year at Brandeis has been completed.

All applicants for both the undergraduate and graduate grants must have a thorough knowledge of the English language inasmuch as all students study within the regularly organized curriculum. In addition, opportunities are provided for all Wien Scholars to attend special seminars, conferences, and field trips which are planned to provide an understanding of many facets of American society.

The Wien Program participates with Harvard, Boston College, Boston University, and Massachusetts Institute of Technology in the BASIS (Boston Area Seminar for International Students) summer orientation program

which is open to students who have been admitted to these universities. This program facilitates the adjustment of foreign students to American academic communities. Foreign students also have the privilege of participating in a program-oriented, home-stay schedule of visits and hospitality developed through the Wien Office.

Inquiries concerning the undergraduate program should be addressed to the Wien International Scholarship Program at the University and should contain a brief resumé of the applicant's scholastic background and field of interest. Inquiries concerning the graduate program may be addressed either to the Wien Office or to the Graduate School itself.

Lemberg Center for the Study of Violence

The Lemberg Center for the Study of Violence was organized to provide, within a scholarly setting, major research and training in the problems of violence and to establish a forum for a continuous dialogue that will reach out to all segments of the community. The staff of the Center, which is an outgrowth of the University's three national conferences on violence, seeks to analyze the legal, psychological, psychiatric and sociological aspects of violence and hopes to develop techniques for its control. The initial research activities of the Lemberg Center have dealt primarily with the causes of racial violence in fourteen major American communities.

Established through a generous benefaction of Mr. Samuel Lemberg of New York City, the Center has subsequently received substantial research grants from the Ford Foundation and the National Institutes of Mental Health.

The Morse Center for the Study of Communication

The principal function of the Morse Center for the Study of Communication is to further the art of communication in the services of higher education, and to explore ways of better using mass media with particular emphasis on international relations, government, social welfare and related areas. The Center is also concerned with the potentialities that have opened through television and radio, film and computer technology that will allow not only the transmission of knowledge but its creation and perpetuation.

A number of sponsored research studies are underway to determine the viability of creating a Brandeis University "Visual University Press," which would serve as the reference resource for this new media in educational technology. Film, television tapes, film strips and archival material derived through the programs of the Morse Center would encompass research of our own creation, programs of our campus specialists who are developing their own projects and the works of distinguished authorities brought in from other areas.

Amongst programs previously undertaken have been annual quantitative studies of the programming content of American educational television (ETV) and multi-national mass communication study programs for representatives of newly emerging nations in cooperation with the United States Department of State.

The Center is primarily underwritten by a major grant from Lester S. and Alfred L. Morse of Boston.

The Sarah and Gersh Lemberg Nursery School

The Lemberg Laboratory-Nursery School was established, as a unit of the Psychology department, in the fall of 1961 through the generosity of Samuel and Lucille Lemberg. Both indoor and outdoor facilities and equipment accommodate some 30 youngsters. Brandeis students enrolled in the education sequence, and students from Tufts University and Wheelock College, serve as practice teachers.

Rosenstiel Biochemistry Program

The graduate and research program in biochemistry is supported by a grant from the Dorothy H. and Lewis Rosenstiel Foundation made "in support of research in the natural sciences with primary emphasis in biochemistry."

The Rosenstiel Biochemistry Program, established in 1957, includes more than 70 graduate and postgraduate research fellows. Among the agencies co-operating in sponsoring research are the National Science Foundation, National Institutes of Health, Office of Naval Research, American Cancer Society, Atomic Energy Commission, the Eli Lilly Company, Howard Hughes Foundation, Rockefeller Foundation, National Dental Institute, and the Damon Runyon Memorial Fund.

Professorships and Lectureships

Jacob Ziskind Professorships

To implement its philosophy of education, the University brings to the campus distinguished academic figures from sister universities both in the United States and abroad who serve as Ziskind Visiting Professors. This program, made possible by the Jacob Ziskind Endowment Fund, enables the University to supplement its regular teaching staff with the presence of academicians drawn from other major streams of educational thought. Inclusion of distinguished foreign academicians serves to challenge and stimulate faculty and students with the introduction of new concepts and new educational viewpoints, thus strengthening the entire educational process.

Harry B. Helmsley Lecture Series

Established to reduce barriers that separate different races, creeds and nationalities, this annual public lecture series has, since its inauguration, featured leading philosophers, educators, government officials and religious leaders in discussions and seminars that relate to intergroup understanding.

The Martin Weiner Distinguished Lectureships

The income from this endowment fund permits the designation of several Weiner Distinguished Lecturers each year. Lecturers receiving these appointments are selected not only from the academic world, but also include figures drawn from the fields of religion, government, international affairs, letters, science and the business world. The Weiner Distinguished Lecturers enrich the University's curriculum by participating in regular academic seminars and symposia and, in addition, University convocations and public events.

Stephen S. Wise Memorial Lecture

This annual lecture was established by the late Nathan Straus to bring to the University each year a distinguished representative of the liberalism that was basic to the outlook of Dr. Wise.

Abba Eban Lectureship

Also through the generosity of Nathan Straus, this endowment permits an annual lecture by a statesman or scholar on some phase of Middle Eastern affairs.

George and Charlotte Fine Endowment Fund

Created to supplement chamber music programs given under the auspices and direction of the Department of Music, the Fine Endowment Fund makes possible the engaging of visiting artists to perform with members of the Brandeis faculty.

"In honoring, we are honored."



Special Academic Programs

Rogoff Foundation Trust

The Rogoff Foundation Trust, a major gift established by the trustees of the Rogoff Foundation Inc., provides support for scholarships, fellowships, study or research in the pre-medical or medical sciences, or related life sciences.

American Jewish Historical Society

In the established pattern of learned groups which elect to locate at colleges and universities, the American Jewish Historical Society is housed on the Brandeis campus as a separate and autonomous organization. It provides, however, a focus for scholarly research, symposia, and a common meeting ground for interested undergraduate and graduate students, international figures and for the work carried forth at Greater Boston's many libraries, museums, colleges, and universities; thus enriching both Brandeis and the Society. Its site near both the University library and its Judaic center was made available by Brandeis. The building funds were provided by the late Lee M. Friedman, a former president of the Society, attorney and Boston resident.

Lowell Institute Cooperative Broadcasting Council

Brandeis University is a member of the Lowell Institute Cooperative Broadcasting Council, which sponsors the educational radio station WGBH-FM and Boston's educational TV station WGBH-TV, Channel 2. Brandeis, along with Boston College, the Boston Symphony Orchestra, Boston University, Harvard University, Lowell Institute, MIT, the Museum of Fine Arts, the New England Conservatory of Music, Northeastern University, Museum of Science, Simmons College, Yale University and Tufts University, makes its teaching facilities available for use by WGBH-FM and its television affiliate, WGBH-TV. One of the significant programs of the University's educational broadcasting is "The Prospects of Mankind," organized by the late Mrs. Eleanor Roosevelt, which appeared on both educational and commercial TV stations in the United States and abroad. This program was sponsored by the National Educational Television Center and was produced by WGBH-TV in cooperation with Brandeis University.

Edith Barbara Laurie Theater Arts Trust Fund

Established by Mr. and Mrs. Irving Laurie in memory of their daughter, the Edith Barbara Laurie Theater Arts Trust Fund aids in the support of the University's respected theater arts program. The funds provided in this gift avail the development and strengthening of the theater arts curriculum and its frequent stage presentations.

Dretzin Living Biographies Program

The techniques of modern electronics, the documentary and the perceptive historian have been combined in *Living Biographies*, an imaginative approach to recording the memoirs of intellectual and other public personages who influence the thought and events of their times. The program is underwritten by Samuel C. Dretzin of New York, a Fellow of the University. *Living Biographies* are video-taped and filmed interviews that serve as historic documents for advanced scholars and undergraduates. The program seeks its subjects everywhere in the world and many notable figures in all facets of public life, the professions, business, arts, sciences and education are participating in the interview program. Among those recently taped are David Ben-Gurion and Eamon DeValera.

Brandeis University Creative Arts Awards

The establishment of the Brandeis University Creative Arts Awards was announced by the University during 1956. Awards are presented annually in the areas of Theatre Arts, Music, Poetry or Fiction and Painting or Sculpture. In each of these fields of the arts, two types of awards are bestowed. Achievement medals are conferred upon successful artists for outstanding accomplishments during the year; and grants-in-aid are awarded to young talented persons, in recognition of their creative ability and encouragement for future study and training. Special juries are appointed annually in each of the fields to judge the competition. Winners of the 1967 Awards were:

Architecture: MEDAL, Ludwig Mies Van Der Rohe; CITATION, Kevin Roche;

Music: MEDAL, Ross Lee Finney; CITATION, Claudio Spies;

Poetry: MEDAL, Conrad Aiken; CITATION, May Swenson;

Theater: MEDAL, Jerome Robbins; CITATION, Ellen Stewart, and Notable Achievement, Kenneth Burke.

Office of Adult Education

To provide adults with the opportunity to pursue courses of instruction in areas of particular interest to them, the Office of Adult Education sponsors daytime seminars, and evening and Sunday-morning lecture courses, all directed by members of the Brandeis faculty, and all consistent with the quality of Brandeis academic offerings. In addition, the office plans and presents a variety of special public lecture programs throughout the academic year.



The Faculty Center

Summer Institutes for Adults

The Summer Institutes for Adults seek to broaden the University's academic scope by offering a unique residence program to adults from all sections of the country. Participants may spend either one or two weeks of intensive, uninterrupted study, directed by Brandeis faculty members and supplemented by guest lecturers, on topics broadly concerned with the problems and trends of contemporary civilization.

Themis House

Through the generosity of Mr. and Mrs. Boice Gross of San Francisco, Brandeis has acquired a large estate—within a few minutes drive of the campus—consisting of nine acres of land and an attractive English Tudor mansion where it is possible to house, feed and accommodate 30-40 persons. Themis House is the setting for significant academic institutes, conferences and training programs sponsored by the University. In exceptional instances, it is made available to cooperating educational or civic agencies.

The Loeb Computer Center

Established through an initial grant from the National Science Foundation, the University's computer center supports research in the social, life and physical sciences and is utilized for other scholarly and administrative purposes. Plans are presently underway for substantial expansion of equipment and facilities. Under active study is installation of a major computer which will be the principal unit in the Isaac Anderson Loeb Foundation Computer Center building, shortly to be erected.

General Description

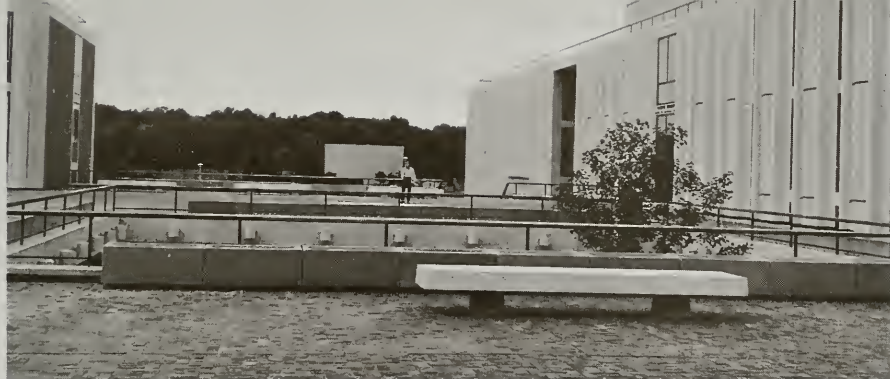
Brandeis University, on the southwest outskirts of Waltham, Massachusetts, is ten miles west of Boston, adjacent to Wellesley and near historic Lexington and Concord.

From the eastern Charles River boundary, University grounds sweep upward to New England's famed Boston Rock, where Governor Winthrop and his Massachusetts Colony explorers first surveyed the region that is today Greater Boston.

By automobile, the campus may be reached as follows: *From the south and west* take Exit 14 of the Massachusetts Turnpike and follow signs to Route 128 North, then Exit 51, left turn at end of exit ramp and follow signs to Brandeis. *From the north*: Route 128 south to Exit 51, then follow signs. *From Boston*: Massachusetts Turnpike Extension to Exit 15, follow signs towards Route 30 and Weston, right turn at Route 30, left turn at traffic light; or, follow Commonwealth Avenue (Route 30), until the intersection just west of the Route 128 overpass; follow signs to Brandeis.

By public transportation: The campus is adjacent to the Roberts Station of the Boston and Maine Railroad (West Concord Line), from which trains run on a frequent schedule to and from downtown Boston (North Station) and Cambridge. Rapid Transit facilities terminate at the Riverside Station of the Massachusetts Bay Transportation Authority (MBTA), 3 miles from campus. Public bus and taxi service operate between Riverside and Brandeis.





Long distance bus travellers will find that it is much easier to alight at Riverside rather than Park Square, Boston. All Trailways and Greyhound through and express buses stop there. Train travellers from the South should de-train at Boston, but train travellers from the west should get off at Newtonville, a 20-minute ride from campus on the Roberts bus. From Logan Airport, the easiest route is by taxi to North Station and from there to the Roberts stop (check train schedule first). Rapid Transit is also available from Logan to North Station.

Academic and Administrative Buildings

Abelson Physics Building

Completed in 1965, the Abelson Physics Building houses teaching and research laboratories of the Physics Department. It also includes a major physics lecture and demonstration hall.

Administration Center

Overlooking the main entrance to the campus, the Brandeis University Administration Center houses the offices of the president, deans, student administration, university administration and the National Women's Committee. Conference room facilities serve the Board of Trustees, faculty and administrative staff. The Center comprises Bernstein-Marcus Administration Center, Gryzmish Academic Center and the Julius and Matilda Irving Presidential Enclave.

Bass Physics Building

A unit of the Science Quadrangle, the Bass Physics Building includes research facilities for the Physics Department as well as departmental offices.

Bassine Biology Center

The Bassine Biology Center houses all of the research activities of the Biology Department. It includes environmental growth chambers and greenhouses in addition to laboratories, laboratory support areas, preparation rooms, and seminar facilities for the use of Biology faculty and research personnel.

Brown Social Science Center

Adjacent to the library, the Brown Social Science Center includes three structures.

The central building houses the Sociology, Anthropology and Psychology Departments. It contains classrooms, seminar rooms, faculty offices, laboratories and a small anthropology museum. Glass walls overlook an attractively landscaped quadrangle which the Social Science Center encloses.

Schwartz Hall houses a 300-seat lecture auditorium, classrooms and a spacious lounge. Millions of viewers across the nation have watched television programs recorded in the main auditorium, specially equipped for use as a television studio. The lounge contains a permanent exhibit of Oceanic Art and Ethnographic objects donated to the University by Mrs. Helen S. Slosberg.

Lemberg Hall is the home of the Lemberg Laboratory-Nursery School, operated by the Department of Psychology. Classrooms with specially constructed walls of one-way glass enable students to observe youngsters in the nursery school and to record their development from the observation room. Lemberg Hall also houses the Psychological Counseling Center.

Brown Terrarium

Brown Terrarium, a completely equipped experimental greenhouse, located between the Faculty Center and Sydemann Hall, provides facilities for botanical research.

Dreitzer Art Gallery

Designed as an adjunct to the art exhibition facilities of the University, the Mildred and Albert J. Dreitzer Art Gallery houses special loan exhibitions as well as periodic displays of selected art works from the University's permanent collection.

Lemberg Nursery School





Gerstenzang Science Quadrangle

Harry Edison Chemistry Building

A center for research in Chemistry, completed in 1965, the Harry Edison Chemistry Building includes laboratories and research offices for faculty, postdoctoral research fellows and other research personnel of the Chemistry Department.

Faculty Center

On the south campus is the Faculty Center, containing club facilities, lounges, the faculty dining room, a private dining room for faculty meetings, and apartments for visiting faculty and lecturers.

Ford Hall

Near the central campus, Ford Hall contains classrooms, laboratories, faculty offices and Seifer Hall, an auditorium seating 500, which is used for lectures, large student meetings, and major conferences.

Friedland Research Center

Joined to Kalman Science Center by an overhead corridor of glass and stainless steel, Friedland Research Center provides four stories of modern laboratories which house research in biochemistry and related life sciences.

Gerstenzang Library of Science

The central structure of the Science Quadrangle is the Gerstenzang Library of Science. This building includes a science library and lecture-demonstration auditoria. The library contains stacks for 250,000 volumes, along with facilities for preparation and use of microfilms, a periodical room and journal reading area, office and other library administration facilities. The lecture-demonstration halls are constructed as amphitheatres, one seating 300 and the other 100. This unit is connected to all other buildings in the University's Science Complex.

Goldfarb Library Building

Near the center of the campus, Goldfarb Library Building is a brick, limestone and glass structure with an ultimate capacity of 750,000 volumes. On the periphery of its open stacks are student study carrels and faculty studies. Seminar rooms are provided for those courses requiring intimate and immediate access to library resources in specific research and reference areas. The library also contains audio-visual aids, specialized reading rooms, typing rooms and lounge facilities. Works of art from the University collection are on constant display in the many galleries of the building.

Golding Judaic Center

Overlooking the campus from the northeast corner of the Academic Quadrangle, Golding Judaic Center contains classrooms devoted to the study of the Near East, Judaics and related subjects. Classrooms and faculty offices ring its large, central lecture hall.

Goldman-Schwartz Art Studios

The Goldman-Schwartz Art Studios provide classrooms, faculty offices and sculpture areas for the Department of Fine Arts and studios for faculty, advanced students and artists-in-residence. Its completion marked a major step in fulfilling the master plan for a unified creative arts enclave extending across the southwest campus.

Goldsmith Mathematics Center

Completed in 1965 as a unit of the Science Quadrangle, the Goldsmith Mathematics Center provides classrooms, seminar rooms, research offices, faculty offices and a mathematics library for the use of the Mathematics Department.

Hayden Science Court

The Charles and J. Willard Hayden Court, comprising several acres in the central campus area, is the site of present and projected science facilities of the University. This area has been set aside as a memorial to two generous benefactors, whose pioneer gift stimulated the extensive scientific programs of the University.

Heller School Facilities

The Florence Heller Building, completed in 1966, houses the administrative, faculty and teaching activities of the Florence Heller Graduate School for Advanced Studies in Social Welfare.

A major research center, the Benjamin Brown Building, provides research offices and work rooms for the multifaceted research programs being conducted by the Heller School.

Kalman Science Center

The University's first structure devoted entirely to science, Kalman Science Center continues to be the key facility in the growth of the University's science facilities. This center contains instructional and research laboratories for the undergraduate School of Science and for the advanced work of the Graduate School of Arts and Sciences.

Kosow Biochemistry Building

A unit of the Biochemistry Research Center located to the east of the existing Friedland Research Center and joined to the building on all floors, this building provides additional modern laboratories where research in Biochemistry and related life sciences is conducted.

Lecks Chemistry Building

Adjoining the existing Kalman Science Center, the Lecks Chemistry Building provides modern laboratories and research spaces for the expanding chemistry research program of the University.

Olin-Sang American Civilization Center

On a hillside overlooking the library and Three Chapels Area, the Olin-Sang American Civilization Center provides unique seminar-classroom halls which include display areas for the placement of original manuscripts and source materials relating to the courses offered. Included are the Diplomatic Studies, Human Rights, Lincoln, Presidential, Washington, Judicial, Legislative, Ethnic Studies and Slater Halls. The Shapiro Forum, which is the building's lecture auditorium, is patterned after the United Nations General Assembly hall.

Pearlman Hall

A circular lounge, walled in glass, is a unique architectural feature of Pearlman Hall. Its main building contains classrooms and seminar rooms and houses the Sociology Department.

Goldfarb Library Building



Rabb Graduate Center

The rapid growth of the University's Graduate School of Arts and Sciences has made it necessary to expand the facilities allocated for Graduate School administrative activities and for graduate teaching in the humanities. Recently completed is a new Rabb Graduate Center provided by the Rabb Family, together with a grant from the United States Office of Education under the Higher Education Facilities Act. This facility provides administrative and faculty offices, seminar and teaching rooms and study space for graduate students.

Rapaporte Treasure Hall

Adjacent to Goldfarb Library Building, and joined to it by a glass-enclosed lobby, Rapaporte Treasure Hall is the repository for rare books, incunabula and other library treasures. The upper level serves as the main exhibition area and the lower level stores the University's growing collection and includes a specially constructed vault with provision for the protection of these rare items against the ravages of time, temperature, humidity, fire or theft. Special display areas are built into the Rapaporte Treasure Hall.

Rose Art Museum

Located within the Creative Arts enclave, the Rose Art Museum is the focal point for the University's rapidly burgeoning art collection. On permanent display are portions of the noted ceramic collection of Mr. and Mrs. Edward Rose. Major loan exhibitions are placed on display during the academic year as well as selections from the University's permanent collection. The wishing pool on the lower level is both a pleasant setting for quiet reverie and the objective of coin-tossing students before examinations.

A Lecture in Rose Art Museum





Shiffman Humanities Center

Segal Physics Building

A unit of the science research center, the Segal Physics Building includes research offices for theoretical physicists, laboratories for research in physics, and newly developed research areas for investigations in high energy physics.

Shiffman Humanities Center

Atop a hillside where its glass walls reveal spectacular views of the campus and the country north of Boston, Shiffman Humanities Center employs a new academic concept in educational architecture. Original manuscripts, portraits, and source materials related to courses being offered are displayed in the seminar rooms. The latest in electronic language teaching facilities are employed in the building's language laboratory. Included are the Language and Phonetics, English and American Literature, Classics, Philosophy, Renaissance, Germanic and Asian Studies Halls.

Slosberg Music Center

Located at the entrance to the campus, the Slosberg Music Center includes classrooms, practice rooms and office facilities for the Music Department. The Center has its own music library and a recital hall which seats 250 with carefully designed acoustical treatment. Slosberg Recital Hall is the location of the University's rich program of chamber music concerts and solo performances. It also houses the University's baroque organ, given by Mrs. Aber D. Unger of Baltimore, Maryland, as a memorial to her late husband.

Spingold Theater Arts Center

The Spingold Theater Arts Center is a unique and imaginative concept translated into exciting design. With a theater auditorium as its hub, the circular Center includes areas for every facet of the teaching and performing arts; workshops, design rooms, costume preparation and storage areas, rehearsal and dressing rooms, a little theater and a dance studio. Spacious areas are equipped as classrooms and offices, and the great lobby has been envisioned for displays of painting, sculpture and other treasures. The Center's location on the southwest campus places it at the hub of Brandeis' creative arts teaching facilities.

Sydeman Hall

This annex to Ford Hall houses laboratories, classrooms and faculty offices.

Ullman Amphitheatre

Utilizing a natural bowl below the science buildings, the Amphitheatre has a complete stage with full lighting equipment and orchestra pit, classrooms and faculty offices. It is the colorful setting for University convocations and commencements. The University's Academic Communication Program is housed in the Ullman Amphitheatre.

Wolfson-Rosensweig Biochemistry Building

A unit of the Biochemistry Research Center located to the east of the existing Friedland Research Center and joined to that building on all floors, this building provides additional modern laboratories where research in Biochemistry and related life sciences is conducted.

Athletic Facilities

Memphis Tract

A twenty-six acre area on the east edge of the campus, Memphis Tract contains the Shapiro Athletic Center, Marcus Field, Gordon Field and Rieger Tennis Courts.

East Quadrangle Residence Halls



Gordon Field

One of the nation's most modern tracks rings Gordon Field where the University's track and field squad plays host to teams from throughout the east. The central area provides playing fields for the University's intramural football teams and specialized accommodations for intercollegiate field events.

Linsey Sports Center

The newly completed Joseph Linsey Sports Center includes an Olympic-size swimming pool, squash courts, fencing room and other athletic teaching facilities. Connected to the athletic center, the sports center provides facilities for substantial enhancement of the University's physical education and intercollegiate athletic programs.

Marcus Playing Field

Brandeis' international student body has won respect for its soccer prowess on Marcus Playing Field, which also contains the varsity and practice baseball diamonds and a softball diamond.

Shapiro Athletic Center

Throughout the school year the main gymnasium operates day and night with varsity and intramural competition as well as physical education activities. The gymnasium is also used for public lectures, student dances and major conferences. In addition, classrooms, offices for the physical education faculty, team, and physiotherapy rooms and dressing rooms are included in Shapiro Athletic Center.

Rieger Tennis Courts

The Rieger Tennis Courts are the scene of informal as well as intramural and intercollegiate tennis competition. They are located to the rear of the Shapiro Athletic Center.

Residence Halls

Campus living accommodations consist predominantly of double rooms, some single rooms and larger quarters. Each residence hall has its own lounge or lounges. Modern laundry and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as are desired. Arrangements for linen and towel service may be made through the University.

East Quadrangle

The most recently completed residence halls on campus are those in the East Quadrangle. These include Hassenfeld House, Rubenstein Hall,



Massell Quadrangle

Pomerantz Hall, Krivoff House and Shapiro Brothers Hall. A large central lounge serves all of these buildings, and the entire area is complemented by the Benjamin and Mae Swig Student Center which includes a dining hall and lounge facilities.

Leon Court

Leon Court, a residence area, has four dormitories and a large student center-dining hall grouped around an attractive, wooded quadrangle. Each dormitory unit contains fully equipped student rooms, a lounge and large recreation room. Dormitories in this quadrangle have been designated the Scheffres, Gordon, Cable and Reitman Halls. The student dining hall is Milton and Hattie Kutz Hall.

Massell Quadrangle

Consisting of Shapiro, DeRoy, Renfield and Usen Residence Halls, and the Sherman Student Center, this is a major housing and recreational area. Each unit has functionally equipped rooms with maximum living and closet space. Ground floor lounges overlook the central quadrangle and the walks encircling Anne J. Kane Reflecting Pool.

Ridgewood Quadrangle

Emerman, Fruchtmann, Danciger, Allen and Rosen Residence Halls comprise the University's living areas for students on the south campus. Each hall has two lounges opening on the quadrangle.

The Usen Castle

An imposing structure designed after medieval architecture and completed a decade before Brandeis was founded, the Irving and Edyth Usen Castle has been remodelled into single, double, and larger rooms for women. Its ground floor houses the University Snack Bar and the student-operated coffee shop, *Cholmondeley's*.

Schwartz Residence Hall

This companion structure to the Castle houses women. Its lounge, a retreat for reading, relaxation and entertainment, is furnished in contemporary style.

Themis House

Special seminars, conferences and symposia are housed at Themis House, located in Weston, Mass., a few minutes from the campus. Thirty to forty participants may be accommodated for food and lodging at this University conference site, made available by Mr. and Mrs. Boice Gross.

Student Centers

Sherman Student Center

The glass walls of Sherman Student Center rise from the ground level to roof, overlooking Massell Quadrangle and the Kane Reflecting Pool. Its ground floor dining hall serves several hundred students daily and is frequently utilized as a banquet hall for major University functions. Along the upper level are located a large lounge, game room and two smaller dining rooms. Bulletin boards of these rooms serve as the major communications center for student activities and the walls frequently are hung with special art exhibits. Dances, parties and meetings often occupy the entire building on busy evenings.

Sherman Student Center





Rapaporte Treasure Hall and Goldfarb Library

Feldberg Lounge

Spacious and comfortable, this glass and brick walled lounge is used for informal discussions, lectures, songfests and conferences and is a favorite meeting place between classes. Works of art by student and professional artists are on constant exhibit.

Kutz Hall

A towering ceiling, attractive furnishings, a site overlooking Greater Boston, make Kutz Hall a versatile and popular student dining hall. Banquets seating 500 are held on its main floor. An outdoor terrace and commodious balcony provide unusual settings for receptions and student social activities. Folding walls under the balcony permit creation of private rooms for dinner meetings of student or faculty groups. The towering north wall of Kutz Hall mirrors the rest of Leon Court in its more than 8000 square feet of glass.

Swig Student Center

The attractively furnished Swig Student Center, in the East Quadrangle, provides dining facilities for 330 students as well as lounge and terrace for student receptions and social activities. It also includes a private dining room for dinner meetings of student groups. The Swig Student Center is connected to the dormitories of the East Quadrangle by an overhead walk.

Mailman Hall

This striking glass, brick and granite structure provides spacious lounges, modern recreational rooms and facilities for the display of painting and sculpture. A recently completed addition to this building includes student publication offices, the campus radio station, offices and meeting rooms for the Student Council and other student organizations. Designs are now being completed for enlarging Mailman Hall and transforming the facility into a University mental health and psychological counseling center.

Usen Commons

Greater Boston spreads out in a panoramic view from the windows of Usen Commons, a circular, conservatory style lounge on the second level of the Castle. Since the earliest days of the University, this lounge has been familiar to Brandeis students as ideal for small dances and social functions.

Dining Halls

University dining halls are located in Kutz Hall, Swig Student Center and Sherman Student Center. A separate kitchen is maintained in Sherman Student Center for those wishing special dietary meals. In addition, light refreshments are provided in the Castle Snack Bar and *Cholmondeley's*.

Stoneman Infirmary

On the forward slope of the campus, near the Castle, the Infirmary houses a first aid treatment room, lounge, out-patient clinic, four consulting suites, and rooms for twenty-four bed patients. A new wing increased patient capacity by fifty percent.

The Three Chapels

Assuming that worship is a matter of mood and spiritual climate, not limited to words or ceremonies, the University's Harlan, Berlin and Bethlehem Chapels serve the Protestant, Jewish and Catholic faiths. A centrally located pulpit serves a large outdoor area where shared functions such as Baccalaureate are celebrated. Student organizations responsible for services are the B'nai B'rith Hillel Foundation, Newman Club and Student Christian Association. Each has its own chaplain.

Maintenance Funds

As the University's physical plant expands, the costs of maintaining buildings and grounds impose increasingly on its general fund resources. However, funds to help meet these costs have been made available through the generosity of individuals and foundations.

Louis D. Beaumont Foundation Fund

The Louis D. Beaumont Foundation of Cleveland, Ohio, has provided funds for general purposes, including building maintenance, since the early years of the University.

Harry Pearlman Endowment Fund

A portion of a major gift to the University by Harry Pearlman of New York, has been directed to building maintenance. The remainder of the gift will go toward construction of a teaching center in the humanities.

David and Irene Schwartz Fund

Under a special grant from David and Irene Schwartz, funds have been provided for a systematic landscaping of the campus to achieve a harmony between the terrain's natural beauty and the building architecture as conceived and executed by some of the nation's noted architectural figures.

Facilities Under Construction

Computer Center

Currently being built is the Loeb Computer Center. Located centrally on campus, this Center will house the most up-to-date computer equipment for work supporting research in life, natural and social sciences, humanities and the arts, as well as in meeting administrative needs.

Epstein Campus Service Building

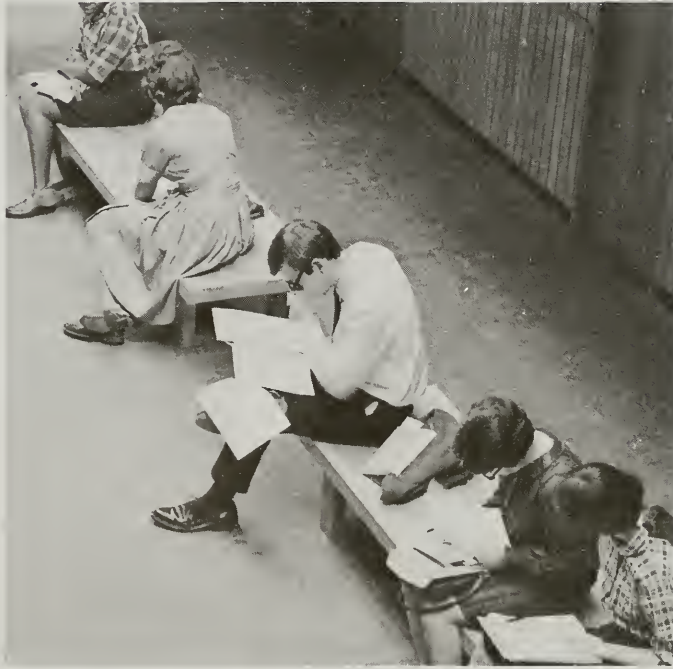
Underwritten by Mr. and Mrs. Rubin Epstein of Chestnut Hill, Massachusetts, the Epstein Campus Service Building, scheduled for completion in 1968, will house several administrative departments of the University, including the Purchasing Department, the Buildings and Grounds Department, the Security Department, and the University's major service facilities, including repair and maintenance shops and stock and storage areas.

Rosenthal Dormitories

Under construction, adjacent to the Massell Quadrangle, are three dormitories which will accommodate approximately 175 students. This grouping of buildings, underwritten by Mr. and Mrs. David Rosenthal of New York City, will be completed for use in the academic year 1968-69.

Isaac Loeb Computer Center





Waiting to register during orientation week

Student Union

Scheduled for completion in 1968 is a Student Union complex which will consolidate student social and recreational facilities in a central location in mid-campus close to major teaching facilities and residence halls. The Student Union complex will consist of a main structure housing such facilities as an assembly and banquet hall, the University bookstore, mailroom, bowling alleys, lounges and food service areas. Other components will house student organizations, student social and recreational areas, and student service offices. The main building of the Student Union has been underwritten by Mr. and Mrs. Samuel Lemberg of New York in honor of their daughter and son-in-law, Mr. and Mrs. Nathaniel H. Usdan. Other units have been provided through generous grants from Mr. and Mrs. Joseph Gluck of New York City; Mr. Ben Tobin of Hollywood, Florida; Mrs. H. W. Winer of Brookline, Massachusetts, in memory of her late husband, Mr. Hy Winer; and the Wuliger Family of Medina, Ohio, in memory of their parents, Helen K. and Frank Wuliger.



The College of Arts and Sciences



Admission of Students

Principles

Admission to Brandeis is not merely a matter of meeting specific requirements. Since the number of qualified candidates each year substantially exceeds the limit that may be registered, the function of the Committee on Admissions is largely selective. The Committee makes its selections solely on the basis of merit. Although it chooses a class varied in its interests, talents and experience, it uses no quotas of any kind—geographic, racial, religious or economic. The Committee selects those candidates whom it believes best fitted to the University's educational program and most likely to contribute to and profit from the life of the academic community.

The Committee on Admissions gives weight to the following considerations in the evaluation of candidates: the secondary school record (including academic grades, rank in class, and personal recommendations from the principal and a teacher); the scores obtained in the Aptitude and Achievement Tests of the College Entrance Examination Board; impressions gained from a personal interview; and the candidate's statement concerning his objectives in college.

Entrance Requirements

To be eligible for admission to the College, a candidate must have fully completed a college preparatory course in secondary school leading to graduation or its full equivalent. He should have received the unqualified recommendation of his secondary school and his rank in class should be high.

An adequate course in preparation for college should include four years of English (grammar, composition and literature), three years of a foreign language (two years each of two languages is acceptable but less desirable), two and a half years of mathematics (intermediate mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; science concentrators should have, in addition, a year of advanced mathematics), one year of science (chemistry, physics or biology), and one year of history. The remaining courses up to the number required for graduation should generally be in traditional college preparatory subjects. It is recognized, however, that courses in art and music are of value to students intending to concentrate in those fields in college.

The Aptitude and Achievement Tests of the College Entrance Examination Board are regarded by the Committee on Admissions as a basic measure of an applicant's fitness for college study and as the fairest method of evaluating on a competitive basis the qualification of candidates from different schools and areas. All applicants must take the Aptitude and three Achievement Tests. The College Board tests must be taken in the senior year, preferably in the December and January sessions. In exceptional circumstances, the Committee may allow a student to submit senior scores from the March College Boards. Junior year achievement scores are acceptable, however, when taken in terminal subjects. The College recognizes the desirability of aptitude tests in the junior year for purposes of guidance.

Full information concerning the tests may be obtained from secondary school guidance directors or directly from the College Entrance Examination Board, Box 592, Princeton, New Jersey, or Box 27896, Los Feliz Station, Los Angeles, California. The candidate should direct the Board to report his scores to the Director of Admissions at Brandeis University. The choice of the three Achievement Tests will to some extent be governed by the interests of the candidate and his proposed field of concentration in college. It is strongly recommended, however, that the candidate take Achievement Tests in: a) English; b) a foreign language; c) mathematics or a science.

Admission to Advanced Standing

Advanced Placement

Brandeis University is affiliated with the Advanced Placement Program of the College Entrance Examination Board. Students who obtain a score of three or higher in an Advanced Placement Examination will be eligible to take an advanced course in the area of their examination and will be given semester hour credits comparable to that awarded for completion of a similar course at Brandeis. After admission, petitions for the waiver of specific courses should be made to the council chairman of the appropriate school for recommendation to the Administrative Committee of the Faculty.

Transfer Status

Transfer students may be admitted to the sophomore or junior classes of the College and receive credit for courses satisfactorily completed in other colleges of acceptable standing and in subjects similar in nature to those offered in the Brandeis curriculum. All transfer candidates should have sent to the Director of Admissions the scores of the Scholastic Aptitude Test and Achievement Tests of the College Entrance Examination Board which they have taken. Those candidates who have not previously taken these examinations will be required to take the Scholastic Aptitude Test of the College Entrance Examination Board no later than March of the year in which they seek admission.

Brandeis University has a two-year residence requirement for its undergraduate degree. It is not possible, therefore, to accept transfer students for one year only.

Admission of Special Students

The Committee on Admissions may accept as special students in September only a small number of applicants who are not candidates for a degree and who may wish to elect one or more courses for which they are qualified. Special student status is limited to those persons not of college age who wish to pursue a limited program of study subject to approval on a semester basis. The University is unable to accept any part-time degree candidates.

Students interested in special student status must send the Director of Admissions both a brief statement of purpose and a transcript of their academic work no later than September 1. Candidates will be asked to arrange interviews with an admissions representative sometime after receipt of their credentials.

Admissions Procedure

The college year begins in September and new students are enrolled only at that time. Both freshman and transfer applications advanced standing must be filed early in the preceding academic year and *no later than February 1*. In addition, the candidate should arrange to be interviewed sometime after June 15 following his junior year and no later than February 15 of his senior year.

A personal interview is considered desirable for both the candidate and the Committee. Each prospective student is urged to visit the campus at his earliest convenience. Appointments for interviews must be made in advance. The Office of Admissions, which is located on the second floor in Gryzmish Academic Administration Center, is open Mondays through Fridays, including vacation periods, but excluding legal holidays. Candidates definitely unable to visit the campus should write requesting off-campus interviews.

Candidates for the freshman class will normally be notified of the Committee's decision in mid-April. *Brandeis has no Early Decision Program*. Transfer students may expect to hear from the Committee late in May.

Upon notification of acceptance, a candidate is required to remit the reservation fee within the time specified if he chooses to accept the place offered to him. Admission is not final until the student satisfactorily completes his year's studies and the University Health Office has approved his health report.

Office of International Programs

This office serves as a clearing house of information both for foreign students studying at Brandeis and for Brandeis students and faculty wishing to study abroad. Information is available concerning opportunities and programs such as Fulbright grants for faculty and graduate students, the Wien International Scholarship Program, the Jacob Hiatt Institute for Study in Israel, and special exchange programs which are being developed with the University of Los Andes in Colombia and the University of Sussex in England.

The office also serves as the center for information concerning special activities, social and educational, for all foreign students. It is also prepared to assist *students* in fulfilling the legal procedures required by the United States Government, in obtaining necessary documents for extended periods of stay, and in other technical matters which might arise.



A Wien Student Reception

Fees and Expenses

Financial Regulations

Students are permitted to register for classes only after all financial obligations have been met or satisfactory terms of payment have been arranged with the Accounting Office. Payment arrangements must be made prior to the due date of the bill in question. Payments received after the due dates of September 8, 1967, and January 19, 1968, or the due dates of the alternative plans, will be subject to a penalty charge of \$10.

Reports of grades or transcripts of records will be issued to students only after all financial obligations to the University have been discharged.

Any student who has not cleared his financial obligations or made satisfactory financial arrangements with the Accounting Office may be denied the privileges of attending classes and using University facilities.

Each application for admission, including application for special student status, must be accompanied by an application fee of \$10 which is not refundable and which cannot be credited toward other fees.

A Reservation Fee of \$50 must be filed by each candidate upon notification of acceptance. This fee reserves a place in the class and is credited toward the first semester tuition bill. If the student fails to enroll, or withdraws his application, the Reservation Fee is not refunded.

The General Fee of \$95 provides medical-health care for the academic year, health and insurance coverage for twelve months, library privileges, and use of athletic facilities. Upon payment of a Student Activity Fee of \$35, collected by the Student Council, students enjoy free admission to cultural, social and other events held on campus during the academic year. This fee provides independence in the conduct of student programs.

Every student must satisfy his financial obligations in full to the University before he shall be considered eligible for graduation.

Tuition and Other Fees*

The tuition fee for 1967-68 is \$1900. Each extra full course is \$380; each extra half course, \$190. Effective with the academic year 1968-69, the tuition fee will be increased to \$2,100. This and any future tuition increase will apply to all classes except the class of 1969. Extra courses may be taken with the approval of the Administrative Committee. Students who are awarded financial assistance by the University, and who need to take extra courses, may request the Committee on Financial Aid to authorize appropriate increases in the awards they receive.

A fee, which varies according to the specific course involved, is charged for laboratory supplies.

Seniors are charged a \$10 Graduation and Diploma Fee.

All fees for special and part-time students must be paid in full by the time of registration for each semester.

Transcript Fee

Students are entitled to one formal transcript of their academic work without charge. A charge of \$1 will be made for each subsequent transcript. The student will pay the transcript fee in advance at the Cashier's Office (Bernstein-Marcus Business Administration Building). Transcripts will be issued only to those students whose financial record with the University is clear.

*The tuition fees listed in this catalog represent, at the present time, approximately thirty-five percent of the actual cost of providing full educational opportunities for each student for a single academic year. The remainder must be met by the University from general funds made available by benefactions and other special gifts.

Residence Fee

The Residence Fee for room and board for the 1967-68 academic year is \$1100, consisting of a room charge of \$450 and a board charge of \$650. Effective with the academic year 1968-69, the residence fee will be increased to \$1,200. Each entering freshman must mail a deposit of \$25 to the University with his room application, the form for which will be sent to the student during the summer. This deposit is credited toward the first bill and is not refundable if the student fails to register. Returning upperclass students must make their advance deposits before the spring room drawing. Upperclass students who fail to notify the Housing Office by July 1st of their intent not to honor their room reservations will forfeit their advance room deposits.

Room contracts are signed by each resident student and are binding for the full academic year.

The fee for board is based on a 21-meal per week dining hall contract. A 15-meal per week contract, excluding Saturdays and Sundays, at \$550 a year, is available to students whose family residences are in Greater Boston. A request for such an arrangement must be made no later than two weeks after the beginning of classes in the Fall Term and must be accompanied by a written statement from a parent and submitted to the office of the Director of Dining Halls.

If a student is granted a 15-meal contract for the first semester, a credit of \$50 will be applied to his second semester bill. The billing for the second semester will automatically be made at the 15-meal contract rate.

Non-resident students may eat in the University dining halls or snack bars on a cash basis.

Special Fees

Special fees are charged for the following:

1. Each change of course after the initial two weeks of each semester, \$5. Such changes must have the approval of the Administrative Committee.
2. Late Registration, \$10.
3. Makeup Examination, \$5.
4. Late Payment, \$10.

Other Student Expenses

A student may expect to spend approximately \$200 per year for books and school supplies. In preparing a budget of annual expenses, students should also take into account personal and incidental expenses as well as transportation costs.

Schedule of Payment of Bills

	First Semester September 8, 1967	Second Semester January 19, 1968
Tuition	\$950.*	\$950.*
Residence Fee	550.	550.
General Fee	95.	—
Other (Senior Graduation Fee, Laboratory Charges, Room Damages, etc.)	As rendered	

Payment Plans

While it is the responsibility of the parent or guardian to arrange the settlement of his financial obligations to the University, and while many parents find it most convenient to meet such costs directly out of their own funds or through local banking arrangements, payment programs are offered to the parents of our students by Education Funds, Inc. of Providence, Rhode Island, and New England Merchants National Bank of Boston. Any

*Plus extra course fees, if any.



questions regarding either of these programs should be directed to the organization concerned.

The University has its own plan which permits payment of each semester bill in four installments on the 15th of each month from September through April. A written request in advance of the start of each academic year should be addressed to the Office of Financial Aid. This service involves a charge of \$5 per semester payable on the 15th of September and January.

Refunds

A student who leaves the University without the approval of the Administrative Committee of the Faculty, or who is suspended or dismissed from the University, is not entitled to any refund.

When the Administrative Committee of the Faculty grants a leave of absence or allows a student to withdraw during a term, that student may receive a refund of charges in accordance with the following:

1. *Tuition:*

Withdrawal: Before the opening day of instruction: 100% of term tuition.

On or before the second Friday following the opening day of instruction: 75% of term tuition.

On or before the fifth Friday following the opening day of instruction: 50% of term tuition.

After the fifth Friday following the opening day of instruction: no refund.

2. *Scholarships:* In the case of a scholarship student who withdraws, the student's account will be credited with the same proportion of the term scholarship as charged for tuition: i.e. 25% if the student leaves on or before the second Friday; 50% on or before the fifth Friday; and, 100% thereafter. The balance of the scholarship will be cancelled.

3. *General Fees:* No refund of general fees will be made after the opening day of instruction.

4. *Room Charges:* No refund of room charges will be granted on or after the day on which dormitories are opened for residence.

5. *Board:* Refunds will be made on a pro rata basis from the end of the week in which a student withdraws.

The date of withdrawal or leave will be considered to be the date approved by the Committee.

All refunds are subject to review and final approval of the Dean of Financial Affairs and will be disbursed by the Chief Accountant upon written request.



Undergraduate Financial Aid

Introduction

Generous friends and alumni of Brandeis University have made funds available to undergraduate students for financial assistance in the form of gift-aid grants and loans. This assistance is administered through the Office of Financial Aid. The Director of Financial Aid is responsible for implementing policy determined by the Committee on Financial Aid, which is composed of members of the faculty and administration. The Director administers scholarship and loan funds of the University and provides a clearing house for financial aid to students from sources outside the University.

Brandeis awards aid to approximately one-third of its undergraduates annually. Financial aid awards are made as a combination of grant and loan to students who qualify on the basis of financial need, academic achievement and promise, and outstanding personal qualities. The amount of each award is always based on individual financial need. No student, however superior, will be made an award unless there is evidence that he could not attend Brandeis without financial aid. Since the number of qualified applicants exceeds the number who can be helped from established funds, competition for financial aid is keen, and many fine students who are admitted must be refused aid each year.

Costs

Expenses at Brandeis vary from student to student, but an average student expense budget for 1967-68 is as follows:

	Resident	Commuter
Tuition	\$1900	\$1900
General fees (athletic, health, library)	95	95
Student activities fee	35	35
Board and room	1100	300
Books	125	125
Clothing, laundry, recreation, incidentals	350	350
Travel and lunches	*	200
	<u>\$3605</u>	<u>\$3005</u>

A typical resident student might expect to meet these costs in his freshman year as follows:

Summer earnings before college	\$ 300
Previous savings	200
Contribution from family	1500
Outside grant	250
Brandeis grant	1000
Brandeis loan	300

Each case varies with individual circumstances. For example, a student with unusually high summer earnings might wish to reduce his loan from Brandeis. And many students, of course, do not receive outside grants and need more assistance from family resources. It is also true that family circumstances may change during the course of a student's four years at college and that a family may be able to contribute more, with a consequent decrease in aid from the college.

Determination of Awards

The Committee on Financial Aid assesses each student's financial situation on the basis of the computation system established by the College Scholarship Service of the College Entrance Examination Board. This assessment takes into account family income and assets, age of parents, financial commitments to other dependents and members of the family, and other special circumstances. It is expected that a student's resources for education will come first from family resources and his own savings and earnings. The total amount of student and family resources is subtracted from the total student budget to arrive at a figure for estimated financial need.

* A reasonable allowance should be budgeted for travel between the University and the student's home.

When the Committee makes an award it is generally in the amount of a student's remaining financial need.

Freshman Awards

Each applicant for freshman financial aid must file both the Brandeis Financial Aid Application and the Parents' Confidential Statement of the College Scholarship Service. The Parents' Confidential Statement may be obtained from the applicant's high school guidance office or from the College Scholarship Service, Box 176, Princeton, N.J. 08540, Box 881, Evanston, Ill. 60201, or Box 1025, Berkeley, Calif. 94701. Applications for financial aid are considered to be applications for both grant and loan.

Any student who feels he might need financial aid during any part of his four years at Brandeis should apply for aid as a freshman. A student should not expect to receive an award as an upperclassman if he has not received aid as a freshman. The University attempts to renew aid to any freshman who has need as an upperclassman and whose academic record and personal record are satisfactory. Thus, extra funds are not usually available for upperclassmen applying for the first time.

Because of the University's limited funds, not all students who apply for aid will be made an award. Students who have financial need but have not been made an award from the University should be sure of being able to finance four years at Brandeis before accepting the offer of admission. A student might expect to earn and borrow from sources outside the University as much as \$1500 a year for his education, but this still leaves a sizable gap in expenses. Because of the academic demands of the University, a student cannot depend on working more than ten to fifteen hours a week to earn his expenses.

Awards are made on the assumption that all outside grants or special gifts are listed on the Brandeis Financial Aid Application or Parents' Confidential Statement. If a student receives prizes or grants from other sources after submitting this statement he should report promptly the sources and amounts to the Office of Financial Aid. In cases where the amount of outside financial support amounts to a considerable percentage of the Brandeis award or exceeds it, the University may adjust its award so that funds may be released to another applicant who is in need of aid. It is imperative that the University have a record of all financial assistance received by Brandeis students from sources other than the college.

Because of limited funds, students admitted from the Waiting List should not expect to receive financial aid awards.

Renewal of Awards

Financial aid is ordinarily renewed for the succeeding academic year for students whose financial need continues and whose academic and personal record at the end of the year are worthy of consideration for continued assistance. A new Parents' Confidential Statement and application must be filed each year.

The Committee on Financial Aid assesses each upperclassman's application and makes an annual award that can vary from year to year depending on the circumstances of the applicant and his family. If the family financial situation remains constant, each applicant should expect his award to drop at least \$100 annually because of increased expectation of student resources from his own earnings.

The grant portion of an award ordinarily does not exceed University tuition and fees if the student is living off campus.

Employment

All financial aid recipients are expected to contribute to the cost of their own education both from future earnings, as represented by loans and from summer and term-time employment. The Committee on Financial Aid builds into each student's budget a certain amount of resources from the student as expectation from earnings.

Expectations from Earnings

Year	<i>Men</i>			<i>Women</i>		
	Summer	Part-Time	Total	Summer	Part-Time	Total
Freshman	\$300		\$300	\$200		\$200
Sophomore	350	\$250	600	250	\$250	500
Junior	400	300	700	300	300	600
Senior	450	350	800	350	350	700

It should be noted that the Committee considers the above figures as a reasonable average expectation from earnings. Students may earn more or less in any particular time period, or may compensate for reduced earnings by economizing on individual budget items. The Committee, however, bases its award on the average expectation shown above.

College Work-Study Program

In the Educational Opportunity Act of 1964 and the subsequent Higher Education Act of 1965, federal assistance was authorized to provide addi-

tional employment for selected college students who have financial need as determined by the Office of Financial Aid. These jobs generally offer the same rates of pay as other undergraduate employment and are considered in the normal earnings expectation of each student. Application for all part-time and summer employment may be made through the Office of Career Planning.

Loans

Awards are made as a combination of grant and loan, and many loans are National Defense Student Loans. No application for aid is considered solely as an application for a loan. The full Parents' Confidential Statement and Brandeis application must be completed by every student.

Loan amounts vary, and the Committee on Financial Aid has set an overall limit on loan aid from Brandeis, whether through University or National Defense loan sources, of \$2800 for men and \$2400 for women. The maximum a student may borrow in a year is ordinarily \$700 for men and \$600 for women. These limits are set partly because of the limited resources of the University, but also as a method of preventing students from going too heavily into debt for their undergraduate education.

If a student refuses the loan portion of his award in any year the Committee may adjust his award in future years with the understanding that since the loan was considered necessary to meet total need, and the student refused the loan, the Committee may have overestimated the need calculation. If a family chooses to borrow instead of having the student borrow, or if a student earns more than the expectation during a year, these are considered appropriate reasons for refusing a loan. Future awards probably will not be reduced because a student declines a loan in cases such as these, though awards may always be reduced on the basis of lower financial need.

Terms of Loan Plans

Brandeis University Loans

Brandeis has limited loan funds that are supplemented by National Defense Student Loan funds. Brandeis University loans become due and begin accruing interest on July 1 of the year following graduation from the University. Interest at the rate of 3 percent per annum is charged on the outstanding balance, and all loans are payable in full within six years following graduation. In the case of a student's withdrawal or severance

from the University, interest accrues and the loan becomes due at the date of withdrawal or severance.

National Defense Student Loans

National Defense Student Loans are authorized and administered by the University which contributes 10 percent of each National Defense loan.

Any student at Brandeis University with financial need who is a United States citizen or permanent resident, who is carrying at least one-half the normal full-time academic workload as determined by the University, and who is willing to take and subscribe to an oath or affirmation that "I do solemnly swear (or affirm) that I bear true faith and allegiance to the United States of America and will support and defend the Constitution and laws of the United States against all its enemies foreign and domestic" may be considered for a loan for the payment of tuition and required fees, board and room, and similar living expenses and for institutional equipment, materials and books, under Title II of the National Defense Education Act of 1958.

As in the case of the Brandeis University long-term loan program, applications are considered by the Financial Aid Committee, and, as funds permit, loans are granted to students who are in satisfactory standing and appear to the Committee to be in need of financial aid, with preference given to students with a superior academic background.

While the student remains enrolled at Brandeis University, no interest is charged and no repayment of principal is required. The repayment period begins nine months after date of graduation or withdrawal from college, and ends ten years and nine months after such date. Simple interest at the rate of 3 percent per annum will accrue from the beginning of the repayment period. Repayment schedules will be drawn up on a quarterly basis, and a minimum principal payment of \$45.00 per quarter will be required.

If the student goes on to graduate school in this country or in certain approved foreign institutions and carries at least one-half the normal full-time academic workload, he may apply for postponement of the beginning of the repayment period until nine months after conclusion of his graduate studies. If he carries less than one-half the normal full-time academic workload, he may apply for deferment of repayment of the required installments for a period, or periods, aggregating not more than three years while he is in such part-time attendance at the institution taking courses creditable toward a degree (or its equivalent in an approved business or technical institution). Interest, however, continues to accrue during any such period, or periods, of part-time attendance. If the student enters military service,

the Peace Corps or VISTA, he may apply for deferment of required payments of principal and accrued interest for up to three years while in such service.

In addition to assisting needy students to continue their education, the National Defense Student Loan Program has another purpose: to encourage borrowers with superior academic backgrounds to enter teaching. The Act, as amended, provides that an amount not to exceed fifty (50) percent of any such loan (plus interest) shall be canceled for services as a full-time teacher in a public or private nonprofit elementary or secondary school or institution of higher education, at a rate of ten (10) percent of the total amount of such loan, plus interest thereon for each complete academic year or its equivalent of such service, except that such rate shall be fifteen (15) percent for teaching in a school in which there is a high concentration of students from low income families as determined by the Commissioner of Education, and an additional fifty (50) percent of the total loan may be canceled in these cases. Cancellation under the same conditions is also permitted for service as a teacher in an elementary or secondary school operated overseas by the Armed Forces of the United States.

For the purposes of loan cancellation, a full-time teacher is generally determined to be a person who is professionally employed on a full-time basis and regularly engaged in carrying out the instructional program of a public or other nonprofit elementary or secondary school or institution of higher education.

The definition of "full-time teacher" in an elementary or secondary school may also include in addition to actual classroom teachers other personnel who render direct and personal services to students in the nature of teaching, counseling, or the improvement of the teacher-learning situation.

Financial Aid to Transfer Students

A limited amount of financial aid is available for students entering Brandeis as transfers from other institutions of higher education. Applicants who could not afford to attend Brandeis without financial assistance should write to the Office of Admissions for the application for financial aid to transfer students. The application for financial aid is due at the same time as the application for admission. Since funds for transfer students are limited, transfer applicants should thoroughly explore alternate plans for financing their education at Brandeis.

Questions about Brandeis University financial aid policies and procedures for undergraduates should be addressed to the Director of Financial Aid.

Student Affairs

Office of the Dean of Students

The Dean of Students, a University Officer, has general supervision over the academic status of students, all student services and extra-curricular activities.

The Office of the Dean of Students (Gryzmish Academic Administrative Center) supervises and coordinates the activities of the various administrative departments designed to meet student needs. The Dean and his staff provide academic, career and personal counseling for all undergraduates.

The Office of the Dean of Students directly concerns itself with the administration of financial assistance to deserving and needy students, supervising extra-curricular student activities, and executing decisions of the Administrative Committee of the Faculty. Selection of academic fields of concentration and the faculty and class advising system are supervised by the Dean's office. Other services to students, including operations relating to housing, employment and placement, registration, the foreign students program, study assistance, International education, athletics, and religious activities are coordinated through the Office of the Dean of Students.



The Administrative Committee

The Administrative Committee of the Faculty reviews academic records after midyear and final return of grades, prepares the Dean's Lists, grants leaves of absence and withdrawals, establishes rules and regulations covering student life, adjudicates infractions of rules and enforces the academic regulations of the Faculty. The Dean of Students is chairman of this Committee, which has eight faculty members and three administrators as voting members. *Students who wish to petition the Committee must do so through the Office of the Dean of Students.* Certain areas of decision have been delegated by the Administrative Committee to the Student Board of Review, which is elected by the student body.

Office of the Registrar

The Office of the Registrar (Gryzmish Academic Administration Center) secures and maintains the official records of students. This office conducts registration, enrolls students in courses, arranges the schedules of classes and administers midyear and final examinations. Students who have class or examination conflicts should consult the Office of the Registrar. Petitions for permission to take either half of a whole course for credit may be obtained at this office early in January of each year. Petitions for permission to take courses at summer schools for credit toward the Brandeis degree may be filed at this office in the spring of each year. At the end of each year students receive a report of their grades and of their progress toward the degree. This office issues the official transcript of the University on request and it serves as the liaison office between students and Selective Service Boards and the Veterans' Administration.

The Office of Career Planning

The Office of Career Planning assists undergraduates, seniors, graduate students and alumni with their graduate and career plans. Information on graduate and professional school, fellowships and scholarships, graduate and professional school catalogues, lists of on and off campus part-time jobs, lists of summer jobs and individual listings of permanent positions, civil service opportunities and work and travel opportunities abroad are on file in the Office of Career Planning for the use of all students and alumni.

The Office of Career Planning will assist any student who needs and desires part-time work. Students seeking part-time work should register with the Office of Career Planning. New students will not be assigned part-time work prior to arrival on campus. Students are cautioned against working more than eight to ten hours per week.

Freshmen should seriously question the wisdom of seeking any part-time employment until they are certain that they can fulfill their academic responsibilities. However, Brandeis University has no rule preventing freshmen from working the first semester.

The on-campus, part-time student rate of pay is \$1.30, \$1.40 or \$1.50 per hour depending on skill and on the amount of time worked for a department. Students can expect to earn from \$200 to \$400 per year. Temporary jobs are often available on a day-to-day basis. Brandeis University participates in the Federal College Work Study Program, which helps provide additional part-time and summer employment, both on and off campus for students with financial need.

The Office of Financial Aid

The Office of Financial Aid provides advice and counsel on matters pertaining to personal financial situations. The Director of Financial Aid is available to assist in planning a budget to help meet the expenses of Brandeis over the four undergraduate years, and can provide specific information on scholarships and loans from Brandeis and outside sources.

Residence

The undergraduate college is essentially a residential college. As a general practice, freshmen and sophomore students whose parents do not reside in Greater Boston are expected to live in University residence halls. Some upperclass students are permitted to live off-campus on application to the Residence Office. In addition, students under 21 years of age must receive parental consent for off-campus residence.

Campus living accommodations consist predominantly of double rooms, some single rooms and larger quarters. Each residence hall has its own lounge or lounges. Laundry machines and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as are desired. Arrangements for linen and towel service may be made through the University.

The residence halls are grouped into five living areas ranging in size from one hundred and fifty to four hundred students. Each of these areas is under the supervision of a resident quadrangle director. Graduate resident counselors and college seniors employed as assistant residents aid in the administration of residence halls. These resident staff members are available to provide assistance to residents on academic, personal, and social matters.

Student Government

Brandeis students consider themselves a part of a community dedicated to the advancement of liberal values, the enrichment of life experience and the deepening of learning. Organized as the Brandeis Student Union, they consider it their prime responsibility to create a democratic student organization, to increase the flow of new ideas and to provide enjoyable and creative recreational and cultural activities for all students.

The Student Union is the assembly of the entire student body. The Student Union Council, consisting of elected officers and elected representatives from each class, meets weekly to conduct its business and supervise its programs. One of its major responsibilities is the collection and allocation of the Student Activities Fee, which is paid by all students to the Student Union.

Certain areas of adjudication regarding student conduct have been delegated by the Administrative Committee to the Student Board of Review. The four officers of the SBR are elected by the entire student body.

Student Publications

Student publications are *The Justice*, a newspaper edited and managed entirely by students to cover matters of campus interest, *The Turret*, a student literary magazine, and *Scope*, covering the social sciences. A yearbook is published annually by the Yearbook Club in cooperation with the Student Union. *The Brandeis Student Handbook*, published annually by the students and the University, contains useful information on the University and its adjoining communities.

Student Organizations

A variety of student organizations exists for all who are interested. Organizations are open to any matriculated student on the basis of competency or interest. No exclusive or secret societies may be organized.

Academic-interest clubs include the Pre-Medical and Pre-Dental Society, the Pre-Law Society, the Spanish Club, German Club, Hebrew Circle, Le Cercle Français, Russian Circle, and organizations for those interested in Philosophy, Biology, Chemistry, Mathematics, Physics, Anthropology, Art, Psychology, Sociology and other fields.

Religious activities are centered in the Three Chapels and are conducted by the four student religious organizations: the Hillel Foundation, the Newman Club, the Student Christian Association and the Student Religious Liberals.



Musical, dramatic and similar activities are engaged in by a number of student groups, which include the Gilbert and Sullivan Society, the Brandeis University Chorus, Brandeis Student (Drama) Productions, and Modern Dance Club. An original student production of a musical comedy nature is presented each year by the Hi-Charlie Association, and the proceeds are used for a student scholarship.

The campus radio station, WBRF-FM, is owned by the University and operated solely by the students. The station is licensed by the FCC to transmit on 91.7 MC to the Greater Boston community. A broadcasting schedule exceeding forty hours per week includes programs of information, entertainment and public service.

The Brandeis Debate Society offers a program of training for interested students. The University supports this activity by providing professional coaching. Novice and Varsity debaters are selected to represent Brandeis in intercollegiate competition organized around the annual national debate topic.

Honor Societies

Phi Beta Kappa

Phi Beta Kappa, for more than a century and a half, has fostered liberal education and has supplied a national criterion for the recognition of students of scholarly promise and attainment.

With the installation of the Mu of Massachusetts chapter in March, 1962, the then 14-year-old Brandeis University joined the ranks of 166 of the nation's liberal arts colleges with chapters of Phi Beta Kappa, and became the youngest independent institution authorized to form a chapter of Phi Beta Kappa since the 18th century. Elections of members-in-course, alumni members, and honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year.

Delta Phi Alpha

In 1962, a chapter of Delta Phi Alpha, the national German honorary fraternity, was established at Brandeis. Students are elected to Delta Phi Alpha on the basis of excellence in the study of German.

Omicron Delta Epsilon

Omicron Delta Epsilon is the Brandeis Chapter of the National Honor Society in Economics. It was established in 1963. It stimulates and promotes student interest in all aspects of Economics and confers distinction for high scholastic achievement in Economics.

Sigma Xi Club

The Brandeis Sigma Xi Club was authorized in 1961 by the national Sigma Xi organization, an honorary scientific society devoted to the encouragement of understanding of the advances and aims of scientific investigation. The local group is composed of faculty and staff members of the departments of Biology, Biochemistry, Chemistry, Mathematics, Physics and Psychology. Each year the society sponsors a series of general lectures on scientific topics open to the entire Brandeis community.

The University Health Services

The Director and his staff are responsible for the physical well-being of students, including the establishment and enforcement of infirmary regulations. Payment of the required medical fee entitles students to treatment available in the David Stoneman Infirmary and to participate in the Student Health Plan. The Health Services and the use of the Infirmary are

available to students only during the period in which the University is in regular academic session.

New students in the College and the Graduate Schools are responsible for submission of a health examination report from their family physician or physician of their choice, as well as for meeting all requirements of the Health Services. These include evidence of immunization against smallpox, tetanus, and, if possible, poliomyelitis. Since students are not permitted to register until these requirements have been satisfied, it is strongly recommended that reports be submitted at least two months before registration.

The health insurance program helps to defray expenses for a period of one year, commencing September 1, 1967, for treatment beyond the scope of the Health Services. A brochure outlining the details of this program is distributed to each student at registration and copies are mailed to parents. Students and parents are urgently requested to read this brochure and keep it for reference. Whereas situations not covered by the health insurance program are infrequent, an awareness of these possibilities will tend to lessen misunderstanding and disappointment. In such instances students and their parents will be responsible for medical and hospital expenses which are not covered under the terms of the health insurance policy.

The Mental Health Center

The Mental Health Center, which is a part of the University Health Services, is located in Lemberg. It provides professional assistance to students who have personal or emotional problems. Those who wish such help may refer themselves directly to the Center. Their communications with the staff are held in strict confidence.

Athletic Activities

Recognizing the importance of athletics in a sound college educational program, Brandeis University offers a wide variety of organized sports. All aspects of college athletics, however, are subordinate to the essential educational purposes of the University. The athletic program exists for the welfare of the student and for the contribution it can make to his educational experience. A physical examination is required before participation in any organized sport.

The University fields varsity teams for men in soccer, basketball, baseball, fencing, wrestling, lacrosse, cross-country, track, tennis and golf. Women engage in varsity basketball, field hockey, tennis, fencing, softball and co-ed volleyball. The varsity squads compete against teams representing colleges and universities which regard athletics in the same spirit as

Brandeis University. Playing on a home-and-away basis, Brandeis teams have scheduled competition with teams from the Midwest, the South and New England. Brandeis is a member of N.C.A.A., New England Athletic Conference and the Greater Boston Collegiate Athletic Association. All home athletic contests are played on the campus at Gordon Field, Marcus Field, Rieger Tennis Courts, or in Shapiro Athletic Center. In 1967-68 the new Linsey Sports Center will open. This facility will contain a swimming pool, squash courts, and multipurpose rooms for fencing and other small team sports. Brandeis has club teams in karate, judo, sailing, bicycling and co-ed bowling, which also participate in intercollegiate competition.

Believing in the value of athletic participation for both conditioning and relaxation, the University maintains a full array of intramural programs. Competitions are organized in various sports on a volunteer-team basis. The men's intramural program includes flag-football, basketball, softball, tennis, badminton, table tennis and bowling. Residence hall and commuter teams have also been organized in these sports, with the competitive aspects subordinated to the enjoyment of the game. The women's intramural program includes volleyball, basketball, softball, table tennis and tennis. The Women's Physical Education Department sponsors the Women's Athletic Council, organized by the students. The Council is responsible for the women's sports program.

Bookstore

The University Bookstore, in the Old Library Building, is owned and operated by the University for the convenience of its students. It is open Monday through Friday from 9:30 a.m. to 4:30 p.m. The Bookstore is able, through its close association and coordination with all academic departments and faculty members, to offer students a comprehensive stock of textbooks and paperbacks correlated with the academic program and with the students' interests. School supplies, drugs, personal and gift items may also be purchased at the Bookstore.

Mailroom

The Campus Mailroom is located in the Old Library Building. All student mail is delivered to the Campus Mailroom and a separate mail box is maintained for each student. The Mailroom is open from 11 a.m. to 5 p.m. Monday through Friday and from 11 a.m. to 12 noon on Saturday. All postal services are provided, including the sale of stamps and money orders, registry of mail and the handling of parcel post packages.

Automobile Regulations

The University will not permit freshmen to maintain motor vehicles on campus. All other students must register their vehicles with the Department of Buildings and Grounds and the Dean of Students and must observe University Traffic and Parking Regulations.

Academic Regulations

Rate of Work

Degree candidates normally carry a full program of five courses each semester. Permission to take one additional course may be granted by the Administrative Committee of the Faculty to students whose records are above average and who have need of additional credit. Petitions for additional courses must be approved by the student's faculty adviser and class adviser, and filed in the Office of the Dean of Students.



Changes in Courses

A student must file his final study card two weeks after the beginning of each semester. Any student who thereafter wishes to make a change in his program must file, at the Office of the Registrar, a course change form bearing the written approval of the instructors concerned and of his faculty adviser. A fee of \$5 will be charged for each change of course. No student may enter a course after the fourth week of the semester.

A student who wishes to withdraw from a sixth course without academic penalty must notify the Registrar by the last day of the semester on which a class in that course is given and pay a fee of \$5.00. A student withdrawing from a sixth course after the first two weeks of instruction and prior to the midsemester return of grades will be rebated one-half of the tuition charge. A student withdrawing from a sixth course after the midsemester return of grades will not receive a rebate of tuition.

A matriculated student who wishes to work at less than the required course rate must consult the Office of the Dean of Students and obtain the approval of the Administrative Committee. A senior with accumulated extra credits may work at a four-course rate in the second semester. A junior or senior concentrating in science may work at the four-course rate, provided he carries fifteen semester-hour credits in each semester and is making normal progress toward his degree. In other cases, permission to work at a reduced rate will be granted only in unusual circumstances.

Auditing

A student who wishes to audit courses must secure the permission of the instructor.

Class Standing

The minimum number of credits required for advancement to each class is as follows: sophomore at least 24 credits, junior 54, senior 84. One hundred twenty credits are required for graduation. Students are advanced at the end of each academic year. A student who wishes to be advanced at the end of the Fall semester should consult the Registrar.

Attendance

Any student in good standing except a freshman has unlimited cuts, provided the student completes the work in his course to the satisfaction of the instructor. A faculty member may, however, require attendance at his course, and every assignment must be completed even if the student has been officially excused for the period. Students on warning are permitted three cuts per course, each semester. *Students on probation are permitted no cuts.*

A freshman, unless on warning or probation, is permitted three cuts per course each semester. If on warning he is permitted no cuts.

Classes begin at ten minutes after the hour and end on the hour. Tardy students may be marked absent at the discretion of the instructor.

Official excused absences are granted only by the Office of Dean of Students.

A student absent from classes because of illness must consult the University Health Office before resuming attendance. Each student must abide by the rules governing excused absences for medical reasons as described in the Health Office pamphlet.

Reading Period

An instructor, with the approval of his Department Chairman or Interdepartmental Committee Chairman and the Dean of Faculty, may institute a reading period in advanced courses. A reading period is a two-week period, immediately preceding final examination, during which no classes are held. A student works on assigned course material not covered in class sessions. The reading period material will be dealt with in the midyear and final examinations.

Grades

Grades will be reported to the Office of the Registrar four times a year. In determining these grades all components of the student's work in a course will be considered: written work, recitations, laboratory technique and reports, special reports or research and all examinations.

The following grades will be used with plus or minus where appropriate:

A—High Distinction B—Distinction C—Satisfactory

D—Passing, but unsatisfactory E—Failure.

The letters "S" (Satisfactory) or "U" (Unsatisfactory) may be used as the midsemester reporting system for undergraduates. The regular letter grades will be used for final grade reporting and evaluation, and these grades will reflect the semester's work. Regular letter grades will be given in the spring midsemester in year courses.

Upperclassmen may take four half courses for credit toward the Bachelor's degree in which they will be graded only "Pass" or "Fail." These courses may not meet any specific degree requirement. For further details students should consult the "Instructions for Filling out the Final Study Card."

The numerical equivalents of the grades as determined by the Faculty are:

A	4.0	B	3.0	C	2.0	D	1.0
A—	3.7	B—	2.7	C—	1.7	D—	.7
B+	3.3	C+	2.3	D+	1.3	E	0.

The Registrar reports midyear and final grades to students in writing. Instructors notify students of midterm grades.

If a student is absent without excuse from a term-end examination and the Administrative Committee does not grant a makeup examination, the student will be given a grade of zero on the examination. The instructor will be instructed to supply a grade for the course. If, after six weeks, the instructor fails to do so, the Registrar will enter a failing grade on the student's record.

A student is expected to complete his work in each course before the beginning of the examination period. If a student receives, with the consent of the faculty member involved, an official excuse from the Office of the Dean of Students for failure to complete a major assignment by that time, the instructor submits the mark "Incomplete". The work must be made up and a formal grade reported to the Registrar no later than six weeks after the beginning of the following semester. If such work is not completed at the required time and no official excuse is offered, the instructor gives a failing grade for the assignment.

Should a student not complete other required academic exercises such as laboratory assignments, minor papers, or quizzes, and if the absence or noncompliance is excused, the instructor in charge of the course may, at his discretion, require the work to be made up or not count the assignment in determining a grade. When there is no satisfactory excuse for the incomplete work, the instructor may, at his discretion, record a failing grade.

Academic Status

A satisfactory record may contain not more than one D and no E's. At the end of the Fall term, and at the end of the academic year on the basis of the entire year's record, the Administrative Committee of the Faculty announces the Dean's List of honor students according to the following categories: No student will have his name placed on the Dean's List who has a D or more than one C in his record for the period.

Dean's List I

5	A		
4	A	1	C
3	A	2	B

Dean's List II

2½	A	2½	B		
3	A	1	B	1	C
5	B				

In order to be eligible for the degree a student must compensate for any D beyond two with an A or a B.

The Administrative Committee will notify a student and his parents in writing whenever his grades are unsatisfactory. When there are extenuating circumstances, no further action is taken. A student whose record is not low enough to incur probation is placed on warning, a disciplinary status. He will be placed on probation at the next grading period unless his work is then satisfactory. A student is placed on probation when his record is seriously unsatisfactory. Such a student will be in danger of dismissal unless his record shows marked improvement. A student's connections with the University are severed if his record is so unsatisfactory that the Administrative Committee considers him unable to meet the academic requirements.

Withdrawal From the University

A student wishing to take a leave of absence or to withdraw from the University must consult the Office of the Dean of Students. Clearance by all appropriate administrative offices and approval by the Administrative Committee of the Faculty are necessary.

Dismissal or Severance

The University reserves the right to dismiss or exclude at any time students whose conduct or academic standing it regards as undesirable, and without assigning any further reason therefor; neither the University nor any of its Trustees or officers shall be under any liability whatsoever for this exclusion.

As a matter of standard procedure, but not of right, the University will give due notice and, if requested, a hearing before the Administrative Committee of the Faculty to any student whose severance from the University for other than academic reasons is under consideration. It is understood that the Student Board of Review will receive notice, will be allowed to advise the involved student, and will be allowed to make a representation to the Administrative Committee of the Faculty on behalf of the student.

Requirements For The Degree

The Brandeis curriculum is based on a general education curriculum and a coherent program of study within a field of concentration. The general education curriculum requires the student to participate in courses designed to provide a substantial general foundation of knowledge about our cultural heritage. Thus, in addition to concentrating in an elected field, the student will be introduced to the major elements of social science, to the humanities broadly considered, to an area of the arts, and to the significant concepts and achievements of science.

General Education Requirements

A freshman will take from the list below courses equivalent to a full-year course in the Humanities, a full-year course in the Social Sciences, a full-year course in the Physical Sciences, a one-semester course in English Composition (1a, 1aR), and the appropriate course or courses to satisfy the foreign language and literature requirement. Exemption from one or more of these requirements can be secured by obtaining a grade of 3 or better on the appropriate Advanced Placement test.

To complete the general education requirements, during either his sophomore or junior year, each student will take one further year course (or the equivalent) in each of the three schools other than the school in which he is a concentrator. A junior who wishes to postpone a general education requirement until the senior year must obtain the permission of the Administrative Committee.

School of Humanities

To meet the requirements a freshman must complete Humanities 1, 5, 6, 14, or Philosophy 1. Freshmen with advanced placement in English may take any of the above courses toward the completion of their General Education requirement in the School of Humanities. The second-year requirement may be met with any of the above courses not previously taken or Humanities 2, 3, 4, 7, 12, or Philosophy 13a and 17b.

School of Social Science

To meet the requirements, a student must take *two* one-semester courses selected from *each* of the following two groups.

Group I (Historical)

History 1a, 1b

History 51a, 51b

Politics 1a, 1b

Anthropology 1b

Group II (Behavioral)

Sociology courses numbered below 10.

Psychology 1a, 2a

Economics 1a, 1b

Anthropology 1a

Students concentrating in American Civilization, History or Politics must take two semester courses from Group II (Behavioral). Students concentrating in Economics, Psychology, or Sociology must take two semester courses from Group I (History). Students concentrating in Anthropology must take a semester course in each group other than a course in Anthropology.

School of Science

The General Education requirement in Science will be met by completion of the equivalent of *four* one-semester courses chosen from those listed, at least *one* of which must be selected from Group II.

Group I

Mathematics 1a

Mathematics 1b (prerequisite:

Mathematics 1a)

Mathematics 10, 11 or 12

Physical Science 1a

Physical Science 1b

Physical Science 2a

Physical Science 2b

Physics 10 or 11

Chemistry 1a or 1aR

Chemistry 10a,b or 15a,b

(without laboratory requirement)

Group II

Biological Science 1a

Biological Science 2b

(prerequisite: Chemistry 1a or 1aR,

or Chemistry 10a,b or 15a,b

or permission of instructor)

Biology 10 (prerequisite:

Chemistry 10a,b or 15a,b)

School of Creative Arts

The requirement must be met by one year course or its equivalent from among the following:

Fine Arts History courses numbered under 100 (2 semesters).

Music 1.

Music courses numbered below 50, of which at least one semester course must be in music history and literature.

Theater Arts 1, 112a, 122a, 152b.

Foreign Language and Literature Requirement

The foreign language and literature requirement for the degree may not be postponed and must be completed within three years of matriculation through the satisfactory completion of the introductory literature course (10, 100, or two semester courses at a more advanced level in one of the following languages: French, German, Greek, Hebrew, Italian, Latin, Russian, Spanish). The foreign language and literature requirement may also be met with a score of 3 or higher on the appropriate Advanced Placement examination. Failure to meet the foreign language and literature requirement within the stipulated period may cause the student to be placed on probation.

English Composition Requirement

Each student is required to take English Composition 1a or 1aR, unless admitted to English Composition 2a. Any student with a score of 3 or more on the Advanced Placement Examination or a score of 750 or better on the Aptitude and English Verbal Achievement Test will be exempt from this requirement. Students with a grade of less than 3 on the Advanced Placement Examination may be granted exemption by the Department of English and American Literature.

Other Freshman Requirements

Elective Courses

A freshman may not enroll in courses numbered 90 or above unless he presents to the Registrar the written consent of the instructor in the course, the Chairman of the Department, and his faculty adviser, or is placed in a higher numbered course in accord with existing University procedures.

Physical Education

Every freshman must enroll in Physical Education whether or not he is an athlete, has a medical excuse, is a veteran, or has previously fulfilled his college Physical Education requirement elsewhere. He must satisfactorily complete the required work in Physical Education as part of his degree requirements. These requirements include participating two hours per week in class, passing a required swimming test or showing evidence of having passed the Red Cross Intermediate Standard Test or higher. A male student must also pass the National Coaches' Physical Fitness Test. The Physical Education classes consist of instruction in flag football, basketball, volleyball, bowling, tennis, golf, badminton, wrestling and softball.

Women have classes in hockey, body mechanics, fencing, golf, tennis, dancing, bowling, archery, badminton, basketball and softball. The AAPHER Physical Fitness Test is administered to freshman women.

Concentration Requirements

General Requirements

To obtain a Bachelor's degree in the College of Arts and Sciences a student must complete the requirements of a field of concentration. Before the end of his freshman year each student will choose a provisional field of concentration after consultation with a faculty adviser in that Department. An entering student who has reached a tentative decision regarding his future field of interest should elect the basic introductory course in this area in his freshman year and cover more of the groundwork in the elective courses of his sophomore year.

Certain departments permit qualified students to substitute a limited number of related courses in other fields for their concentration requirements. Such an option would permit a student to pursue an area of study not represented by a single department. This program is open only to students able to present a purposeful and coherent course of study. Before approval, individual requests are subject to rigorous examination by the student's department. Students should consult individual departmental listings.

Completion of a Field of Concentration

To enroll in courses fulfilling his concentration requirements, a student must have received a C— or better in prerequisite courses.

A 2.0 (C) average is normally required in courses offered for completion of requirements for concentration.

Degrees With Honor

A student whose grade point average at the end of the junior year is 3.0 or above in his field of concentration may petition the department concerned for permission to work for honors in his field of concentration. Departmental distinction is awarded by each Department or Interdepartmental Committee.

The awards of *Cum Laude* and *Magna Cum Laude* will be based on a grade point average set by the Faculty.

The award of *Summa Cum Laude* will be based upon a grade point average set by the Faculty and on the award of distinction in the field of concentration.

School of Creative Arts

Requirements for concentration in each department are listed on the pages indicated.

	<i>Page</i>
1. Fine Arts	114
2. Music	142
3. Theater Arts	181

Candidates for honors must have the approval of the appropriate department.

School of Humanities

The School of Humanities offers the undergraduate a systematic introduction to our literary and philosophical heritage. Requirements for concentration and honors are listed on the pages indicated.

	<i>Page</i>
1. Classics	97
2. Comparative Literature	99
3. English and American Literature	108
4. English and Classics	113
5. French	118
6. German	121
7. Linguistics	135
8. Mediterranean Studies	140
9. Near Eastern and Judaic Studies	147
10. Philosophy	152
11. Russian	170
12. Spanish	179

A student concentrating in languages and literature is advised to take Theory of Language (English 192b, French 112aR, German 112aR, Russian 112aR, Spanish 112aR) in his area.

To be eligible for honors work, a candidate, at the end of his junior year, must have obtained an average of 3.0 or better in his field of concentration and an average of 2.0 in all other courses. He must also have the approval of the department in which he wishes to take honors.

School of Science

The School of Science provides the student with the basic scientific training to qualify him for entry into graduate school or for work at the intermediate level in his scientific field. The student is encouraged to take such courses outside the School of Science as will best broaden and further his intellectual growth. Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. Biology	88
2. Chemistry	93
3. General Science	120
4. Mathematics	136
5. Physics	155

To be eligible for honors work, a candidate, at the end of his junior year, must have obtained an average of 3.0 or better in his field of concentration and an average of 2.0 in all other courses. He must also have the approval of the department in which he wishes to take honors.

School of Social Science

Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. American Civilization	80
2. Anthropology	83
3. Economics	102
4. History	124
5. Latin American Studies	134
6. Politics	159
7. Psychology	165
8. Sociology	172

A student in the School of Social Science who is a candidate for a degree with honors will, in addition to the designated requirements for the several fields, also enroll in senior research (99). Candidates for honors must have the approval of the appropriate department. One reader of a senior thesis must come from outside the department of concentration.

Pre-Professional Training

The Brandeis curriculum does not develop patterns of courses conceived with specific vocational goals in mind. The Brandeis student receives a broad education in the liberal arts and sciences which will prepare him for further study in specific professional and vocational fields at the graduate level. On the premise that a liberal arts education is the best preparation for professional training, the College of Arts and Sciences does not recommend highly specialized courses for pre-professional students.

Pre-Medical and Pre-Dental Students

The Council on Medical Education and Hospitals of the American Medical Association has established three years of college training for the average student as a minimum educational requirement for students entering

medical schools and strongly recommends that pre-medical students take the full, four-year college course. The Council and Association of American Medical Colleges have also prescribed a set of minimum requirements for admission to an approved medical school. These requirements include general and organic chemistry, physics, and biology. The Brandeis student can meet them with the following courses: Biology 10, Chemistry 10a,b or Chemistry 15a,b, Chemistry 25a,b, Mathematics 10 or 11 or 12, and Physics 10 or 11 plus Physics 19c.

These are *minimum requirements*. Many medical schools require more than the specified minimum in certain areas. In order to insure that such additional or specialized requirements can be met in proper sequence, a pre-medical student should arrange his prospective college program with the faculty adviser for pre-medical students.

In evaluating candidates for admission, medical schools attach considerable importance to recommendations by faculty committees before which each student generally appears in his junior year. A potential candidate should arrange his schedule, whenever possible, to assure that he has taken or is in the process of taking the courses generally required as listed above at the time he appears before the Brandeis Committee on Recommendations to Medical and Dental Schools.

Most medical schools advocate a broad liberal arts education in addition to specific course requirements. The medical schools do not advocate any specific field of concentration to undergraduates, and the field of concentration is not a determining factor in admission to medical schools so long as the specific course requirements of that medical school are met. While many pre-medical students concentrate in biology, chemistry, or general science, concentration in the fields of humanities, social sciences, or creative arts allows ample electives to satisfy the requirements of most medical schools.

The same observations apply in large part to the pre-dental student or those planning careers as veterinarians, medical technicians, or practitioners in related fields. Medical schools and dental schools require an aptitude examination ordinarily taken by the student in the spring of his junior year.

Preparation For Teaching

While the University does not offer a field of concentration in education, it does offer several courses that help to meet the teacher certification requirements of individual states. Many students are able to meet certification requirements during their four regular undergraduate years at Brandeis by attending one six-week summer school session. A student interested

in preparing for a career as a teacher in primary and secondary school should inform himself concerning the certification requirements in the state in which he plans to seek employment and should consult the faculty adviser on education.

Brandeis University participates in the Twenty-nine College Cooperative Plan of the Harvard University Graduate School of Education, created to encourage liberal arts college graduates to enter teaching careers. A student recommended for admission by a member college is given priority in admission and is eligible for the scholarship funds designated for the Plan.

Other Pre-Professional Students

Other pre-professional students should consult the faculty advisers designated to counsel students in the fields of law, engineering, business administration, social work, and religion.

Off-Campus Study

Summer School Credit

A student may attend daytime summer schools of six weeks or more conducted by accredited colleges and universities for credit toward the bachelor's degree. Each course must be approved in advance by the academic department concerned, the student's faculty adviser, and the Administrative Committee. Only work of honor grade (A or B) will receive credit. A student may earn no more than twelve credits in one summer nor more than twenty-four credits toward the degree. Petitions to the Administrative Committee for summer-school credit are handled through the Office of the Registrar.

Students who wish to enroll for credit in summer study abroad programs must petition the Administrative Committee of the Faculty for permission in advance of enrollment. The Committee must be satisfied that the course or courses the student intends to take for credit are of good quality and that grades and credits can be ascertained before permission is granted.

Study Abroad

The Brandeis student may participate in a variety of educational programs in foreign countries and receive credit toward his Brandeis degree. Interested students may seek further information and advice from the Director of Foreign Programs.



Hiatt Students in Israel

A student who meets the qualifications set by the faculty and who is approved by the Administrative Committee may be allowed to participate in the Jacob Hiatt Institute in Israel, the Sweet Briar Junior Year in France Program or the Smith College Junior Year Abroad Program. The Committee may permit a student to enroll in his junior year in other programs sponsored by American institutions at foreign universities, or, in exceptional cases, to enroll in a special individual program of study. The Committee reserves the right to limit the number of students granted such permission. Upon satisfactory completion of the approved junior year abroad, a student ordinarily is granted thirty semester-hour credits.

The Jacob Hiatt Institute in Israel

Under provisions of this Brandeis program, a qualified student may be permitted to study in Israel in the summer following the sophomore year and in the fall semester of the junior year. Qualified students who have

completed two years in residence at other colleges or universities may be admitted to the program. Applications, which must be received by March 1 of the year in which admission is sought, should be filed with the Director of the Hiatt Program, Brandeis University.

The Hiatt Institute, which incorporates the former Junior Year in Israel program, is devoted primarily to the study of contemporary Israel, its history and its social and political institutions. Students are based in Jerusalem, but there is considerable travel and local study in all parts of Israel and into every phase of Israeli life. Intensive instruction in Hebrew is provided during July and August. The major courses of instruction, of which three are required of each student, are conducted in English. On satisfactory completion of the program, each student is awarded sixteen semester-hour credits.

Academic prerequisites preferably should include introductory courses in Political Science and in Sociology. The courses offered in 1967-68 are in the fields of Hebrew, Modern Jewish History, Israeli Political Institutions and Israeli Social Institutions.

A University-appointed director administers the Hiatt Institute in Israel, supervises the courses of studies, arranges living accommodations with Israeli families in Jerusalem, plans lectures, tours, visits with Israeli officials and has overall supervision of the program abroad. The comprehensive fee for the six-month program is \$2,000, which includes two-way transportation to Israel, board and room, tuition, and medical care. Financial aid is available usually in the form of scholarship-loan combinations, on the basis of financial need and academic qualifications. Applications for financial aid to participate in the Hiatt Institute may be obtained from the Director of Financial Aid, Brandeis University, and must be filed by March 1, 1968.

Sweet Briar College Junior Year in France

Through this plan, students selected spend their junior year in France pursuing a course of study at the University of Paris. The group is under the supervision of Sweet Briar College, Sweet Briar, Virginia, which arranges round-trip travel, board and room in French homes, sight-seeing trips, enrollment in courses, guides, and supplementary instruction by a staff of native-born instructors.

Smith College Junior Year Abroad

The Smith College Junior Year Abroad Program includes junior year in France, Italy, Spain, and Geneva. The first three are intended primarily for language majors and the latter primarily for students concentrating in economics, history, politics or sociology.

Courses of Instruction

The undergraduate courses of instruction under the faculty of arts and sciences are listed below. Courses meet for three hours a week unless otherwise specified.

- a fall semester course
- aR identical course given in spring semester
- b spring semester course
- bR identical course given in fall semester
- c semester course meeting throughout the year
- H Jacob Hiatt Institute course

Semester courses normally carry three credits and year courses, six. Exceptions are noted under the individual course descriptions. Additional credits are given for laboratory hours, as indicated in the course description. Certain science courses require a "c" laboratory course taken concurrently.

A student may take either half of a year course for credit with the approval and consent of the course instructor, the faculty adviser, and the registrar, on forms obtained at the Office of the Registrar. Certain courses, for example the 1 and 2 courses in any foreign language, cannot be dropped with credit at the end of the first semester.

The University reserves the right to make any necessary changes in the offerings without prior notice.

American Civilization

Executive Committee: Professor LAWRENCE H. FUCHS, *Chairman*; Professor MARVIN MEYERS; Associate Professors JAMES H. CLAY, DAVID H. FISCHER, PETER SWIGGART; Assistant Professors JEROLD S. AUERBACH, GERALD S. BERNSTEIN, GORDON A. FELLMAN.

Requirements for Concentration

A. Required of all Candidates: (a) History 51a, 51b; (b) one tutorial in American Studies; (c) one proseminar or seminar in American studies; (d) Senior Comprehensive Examination in conjunction with American Civilization 98c. The Comprehensive Examination will deal with diverse phases of the history of American civilization, and, to prepare for it, a student should plan his program carefully with his faculty adviser. Helpful courses can be found in many areas: American history, literature, social and political institutions, philosophy and religion, art.

B. Additional requirement, degrees with distinction: American Civilization 99.

***AMERICAN CIVILIZATION 80b. The United States since World War II**

To be given in 1968-69.

AMERICAN CIVILIZATION 97c. Junior Tutorial

Each student will pursue a program of reading in the important literature bearing on the character and history of American civilization.

Prerequisites: History 51a and 51b or permission of the instructor.

Mr. Auerbach

AMERICAN CIVILIZATION 98c. Readings in American Civilization

Independent reading, research and writing on a subject of the student's interest, under the direction of a faculty supervisor.

Available to juniors and seniors with the permission of the Chairman. *Staff*

AMERICAN CIVILIZATION 99. Senior Research

Seniors who are candidates for degrees with distinction should register for this course and, under the direction of a faculty supervisor, prepare a thesis on a suitable topic. *Staff*

AMERICAN CIVILIZATION 150a. Afro-Americans in the United States

An examination of the history of Afro-Americans and the confrontation of blacks with whites in the United States: African origins; slavery; Free Negroes; Black Power and powerlessness. This seminar will be conducted as a workshop. Sociological, psychological, literary, and artistic materials will be utilized. *Mr. Fuchs*

AMERICAN CIVILIZATION 150b. The Family in the United States

An historical examination of the origins, manifestations, and consequences of the distinctive features of middle-class family life in America; precocity in small children; sibling conflict; adolescent rebellion; the independence of unmarried females; the ambiguity of male authority; the assertiveness of married women; the anxieties of motherhood; and the embarrassments of old age. This seminar will be conducted as a workshop. Sociological, psychological, literary, and artistic materials will be utilized. *Mr. Fuchs*

*Not to be given in 1967-68.





Rabb Graduate Center

AMERICAN CIVILIZATION 169a. Religion and Ethnicity in American History

A study of the sub-cultural values and styles of the major ethnic and religious groups in confrontation with the culture-religion of Americanism. An examination of the process of the conflict, accommodation, and acculturation. This seminar will be conducted as a workshop. Sociological, psychological, literary, and artistic materials will be utilized within an historical framework.

Mr. Fuchs

***AMERICAN CIVILIZATION 170b. Americans Overseas**

The following courses offered in 1967-68 will also be appropriate in meeting requirements for concentration in American Civilization:

ECONOMICS 34aR. Government: Expenditures and Taxation

Mr. Hartman

ECONOMICS 37a. The Political Economy of Cities

Mr. Cohen

ENGLISH 8a. American Literature from 1832 to 1900

Mr. Hindus

ENGLISH 109b. The Novel in the Twentieth Century

Mr. Nemerov

FINE ARTS 122a. American Painting and Architecture

Mr. Bernstein

HISTORY 51a. History of the United States to 1877

Mr. Thernstrom

HISTORY 51b. History of the United States since 1877

Mr. Thernstrom

*Not to be given in 1967-68.

HISTORY 97a and b. Tutorial	<i>Mr. Fischer</i>
HISTORY 152a. The Founding of the American Republic, 1776-1800	<i>Mr. Meyers</i>
HISTORY 152b. Jacksonian Democracy	<i>Mr. Meyers</i>
HISTORY 154a. Modern America	<i>Mr. Auerbach</i>
HISTORY 154b. The United States between the World Wars	<i>Mr. Auerbach</i>
HISTORY 161a. Social History of American Science	<i>Mr. Benison</i>
HISTORY 163a. American Intellectual History, 1800-1865	<i>Mr. Meyers</i>
HISTORY 165b. The Social History of Modern America	<i>Mr. Thernstrom</i>
HUMANITIES 4. Classics of American Literature	<i>Mr. Bercovitch</i>
POLITICS 12b. American Government	<i>Mr. Woll</i>
POLITICS 21a. Parties, Pressure Groups and Public Opinion	<i>Mr. Bardach</i>
POLITICS 121a. The Politics of Urban Areas	<i>Mr. Long</i>
POLITICS 156a,b. History of American Constitutional Law and Theory	<i>Mr. Levy</i>
POLITICS 178a and b. American Foreign Policy	<i>Mr. Art</i>
SOCIOLOGY 112b. Social Stratification	<i>Mr. Fellman</i>
SOCIOLOGY 116b. Multi-Ethnic Societies	<i>Mr. Hughes</i>
THEATER ARTS 125a and b. History of the American Theater	<i>Mr. Clay</i>

Anthropology

Professor ROBERT A. MANNERS, *Chairman*; Professor HELEN CODERE; *Visiting Professor* ARI KIEV; Associate Professors GEORGE L. COWGILL, DAVID KAPLAN (*Student Adviser*), ALEX WEINGROD; Assistant Professors JOAN BAMBERGER, RICHARD G. FOX, STEPHAN F. HOLTZMAN, KARL REISMAN, MARGUERITE ROBINSON, BENSON SALER; MR. TIMOTHY ASCH.

Requirements for Concentration

A. Required of all Candidates: Anthropology 1a and 1b, 151a.

B. Elective Courses: Concentrators must elect seven semester courses from those listed in the departmental offerings, and the equivalent of any year course offered by the School of Social Science that has been approved by the faculty adviser.

C. Additional requirement for degrees with distinction: Anthropology 99.

D. Those planning to go on to graduate work should consult carefully with their adviser regarding course selections. Where prerequisites are listed, they must be fulfilled satisfactorily before enrollment in the stipulated course, except under extraordinary circumstances with permission of the Chairman of the Department.

Primarily for Undergraduates

ANTHROPOLOGY 1a. Introductory Anthropology

General introduction to anthropological subject matter and concepts: ethnography and social anthropology. *Messrs. Manners, Fox and Miss Bamberger*

ANTHROPOLOGY 1aR. Introductory Anthropology

Mrs. Robinson

ANTHROPOLOGY 1b. Introductory Anthropology

General introduction to anthropological subject matter and concepts: prehistoric development of culture and of human evolution. *Messrs. Fox, Holtzman*

ANTHROPOLOGY 1bR. Introductory Anthropology

Mr. Holtzman

ANTHROPOLOGY 11a. Anthropology and the Problems of Developing Areas

An analysis of the social, economic and cultural forces at work in selected developing countries and the impact of western civilization in these areas.

Mr. Weingrod

*ANTHROPOLOGY 13b. Africa and the Modern World

To be given in alternate years.

ANTHROPOLOGY 14b. The Negro in the New World

The background and history of slavery. The Negro in the United States and selected areas of the Caribbean and Latin America in the post-slavery period.

Mr. Manners

*Not to be given in 1967-68.



ANTHROPOLOGY 98a and b. Readings in Anthropology

Readings and reports under the direction of a faculty supervisor. Open only to seniors with permission of the department. *Mr. Manners and Staff*

ANTHROPOLOGY 99. Senior Research—Honors

Seniors who are candidates for degrees with distinction in Anthropology are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic. *Staff*

For Graduates and Undergraduates

Undergraduates will be admitted to any course above 115 only with permission of the instructor.

ANTHROPOLOGY 102a. Anthropological Linguistics I

Training in the recording and analysis of spoken languages with emphasis on non-Indo-European languages.

See Linguistics Program.

Mr. Reisman

ANTHROPOLOGY 102b. Anthropological Linguistics II

Relations among languages. Linguistic evidence in the study of prehistory. Ethnography of speaking, speech communities and language contact.

See Linguistics Program.

Mr. Reisman

ANTHROPOLOGY 103b. Language and Culture

Language and thought; speech differences within societies; processes of change; expressive language and poetics; problems of translation; extension of linguistic methods to other modes of communication. No previous training in linguistics is necessary.

Mr. Reisman

ANTHROPOLOGY 110b. Physical Anthropology

An introduction to the major fields of physical anthropology; human evolution, genetics, anatomy, and modern views of race.

Mr. Holtzman

ANTHROPOLOGY 121a. Quantitative Techniques in Anthropology

An introduction to statistical and other formal methods in anthropology, including set theory, probability, cross-cultural methodology, and computer techniques.

Mr. Cowgill

ANTHROPOLOGY 121b. Mathematical Methods in Anthropology

A continuation of Anthropology 121a, including more advanced statistical methods, and consideration in depth of anthropological applications.

Prerequisite: Anthropology 121a or the equivalent.

Mr. Cowgill

ANTHROPOLOGY 123a. Introduction to Prehistory

A survey of man's prehistoric cultures and an introduction to the techniques and concepts used by archeologists in obtaining and interpreting data about these early cultures.

Mr. Cowgill

ANTHROPOLOGY 124b. Pre-Hispanic Civilizations of the New World

A survey of the prehistory and major features of the native civilizations of Middle and South America, from their origins through the Spanish conquests of the sixteenth century.

Mr. Cowgill

ANTHROPOLOGY 126a. Archeology of the Prehistoric Mediterranean

See MS 116a.

Mr. Hammond

*ANTHROPOLOGY 127b. Origins of Early Civilizations of the World

To be given in alternate years.

*ANTHROPOLOGY 133b. People and Cultures of Africa

To be given in alternate years.

ANTHROPOLOGY 135a. Peoples and Cultures of India

An examination of institutions of representative Indian peoples and their relationship to the wider Indian society.

Mrs. Robinson

ANTHROPOLOGY 136a. Cultures of the Far East

China, Japan and Korea. Problems of evolution and development in a context of diverse influences.

Mrs. Robinson

*ANTHROPOLOGY 139b. Peoples and Cultures of the Mediterranean

To be given in alternate years.

*ANTHROPOLOGY 141b. The American Indian

To be given in alternate years.

*ANTHROPOLOGY 143a. Modern Cultures of Middle America

To be given in alternate years.

ANTHROPOLOGY 144a. The Cultures of Native South America

A survey of the aboriginal cultures of South America. Representative cultures will be used in the elucidation of comparative and historical problems. Contemporary conditions of the aborigines will be discussed.

Miss Bamberger

ANTHROPOLOGY 144b. Folk and Peasant Cultures of Post-Conquest South America

The course will concentrate on rural communities of peasants, farmers, and rural wage-earners in colonial and modern South America. Communities will be analyzed from the point of view of internal organization and relations to the nations of which they are a part.

Miss Bamberger

ANTHROPOLOGY 150a. Film and Tape in Field Research

A seminar and practicum on the use and potential of audio-visual devices in field work.

Mr. Asch

ANTHROPOLOGY 150b. Film and Tape in Field Research

A continuation of Anthropology 150a. New students may enter with permission of the instructor.

Mr. Asch

ANTHROPOLOGY 151a. Social Organization

Theories of social organization, the inter-relations of social institutions, current anthropological methods of interpretation and analysis.

Mr. Weingrod

ANTHROPOLOGY 151b. Social Organization

This course, a continuation of Anthropology 151a, will emphasize structural analysis. Designed primarily for advanced undergraduate and graduate students.

Mrs. Robinson

*Not to be given in 1967-68.

ANTHROPOLOGY 152b. Economic Anthropology

Economic institutions of nonindustrial societies.

Miss Codere

ANTHROPOLOGY 153a. Primitive Art

An anthropological approach to the graphic and plastic art of Africa, Oceania, and North America.

(Open only to students who have had six or more points in anthropology courses.)

Miss Codere

ANTHROPOLOGY 153b. Ethnomusicology

See Music 180b.

Mr. Titcomb

ANTHROPOLOGY 154aR. Primitive Religion

An exploration of belief and behavior in societies of non-literate peoples with reference to theories concerning the origins and functions of religion.

Miss Bamberger

***ANTHROPOLOGY 155b. Culture and Personality**

To be given in alternate years.

ANTHROPOLOGY 156b. Political Anthropology

Politics, government, law, crime, and warfare in primitive societies.

Mr. Weingrod

***ANTHROPOLOGY 159b. Cultural Ecology**

To be given in alternate years.

***ANTHROPOLOGY 161b. Culture and Cognition**

To be given in alternate years.

ANTHROPOLOGY 162a. Primate Social Behavior

An exploration of social behavior in phylogenetic perspective.

Mr. Holtzman

ANTHROPOLOGY 165b. Social Stratification in Pre-Industrial Societies

The nature and function of inequalities of status and/or wealth, and the relation of these factors to other aspects of the culture.

Mr. Fox

***ANTHROPOLOGY 166b. Social and Cultural Change**

To be given in alternate years.

***ANTHROPOLOGY 167b. Modernization and Modernization Movements**

To be given in alternate years.

ANTHROPOLOGY 168a. A History of Sub-Sahara Africa

An examination of African origins, colonialism and the emergence of nation states.

See History 185a.

Mr. Duffy

ANTHROPOLOGY 175a. Proseminar in Anthropological Method and Theory: I

Analysis of representative classics in anthropology.

Miss Codere and Mr. Reisman

ANTHROPOLOGY 175b. Proseminar in Method and Theory: II

The development of anthropological theory, major present-day trends and their relation to problems of research.

Mr. Kaplan

See Graduate School catalog for courses numbered 200 and above.

*Not to be given in 1967-68.

Biochemistry

Professor NATHAN O. KAPLAN, *Chairman*; Professor WILLIAM P. JENCKS, *Vice-Chairman*; Professors ROBERT H. ABELES, GERALD D. FASMAN, ABRAHAM GOLDIN, LAWRENCE GROSSMAN, LAWRENCE LEVINE, FARNSWORTH LOOMIS, S. N. TIMASHEFF; Associate Professors JOHN M. LOWENSTEIN, FARAHE MALOOF, GORDON H. SATO, MORRIS SOODAK, HELEN VAN VUNAKIS; Assistant Professors WILLIAM S. ALLISON, DAVID M. DAWSON, DAVID M. FREIFELDER, SEN-ITIROH HAKOMORI, THOMAS C. HOLLOCHER, SUSAN LEEMAN, JOSEPH V. MESSER, WILLIAM T. MURAKAMI, DWIGHT ROBINSON, S. SHIMIZU.

BIOCHEMISTRY 99. Research for Undergraduates

Prerequisite: Approval of department.

Mr. Soodak and Staff

For Undergraduate and Graduate Students

BIOCHEMISTRY 100a. Introductory Biochemistry

Chemistry and metabolism of compounds of biological importance, introduction to enzyme reactions, energy metabolism, cellular function and differentiation.

Prerequisite: Chemistry 25a,b.

Four classroom hours a week.

Mr. Loomis

BIOCHEMISTRY 101. Advanced Biochemistry

Enzyme reactions including energetics, kinetics, and reaction mechanisms. Metabolism of carbohydrates, lipids, amino acids, nucleic acids, vitamins and coenzymes, hormones and inorganic substances. Coupled enzyme reactions and the synthesis of macromolecules.

Prerequisites: Chemistry 25a,b, Biochemistry 100a or their equivalent. Some background in elementary physical chemistry is recommended but is not required.

Mr. Abeles and Staff

BIOCHEMISTRY 103a. History of Biochemistry

A discussion of significant discoveries which have led to present-day concepts of biochemistry.

Prerequisite: Biochemistry 100a.

Mr. Kaplan and Staff

See Graduate School catalog for courses numbered 200 and above.

Biology

Professor MARTIN GIBBS, *Chairman*; Professors HERMAN T. EPSTEIN, ALBERT KELNER, JEROME A. SCHIFF, MAURICE SUSSMAN, ANDREW G. SZENT-GYORGYI, EDGAR ZWILLING; Associate Professors CHANDLER FULTON, ATTILA O. KLEIN; Assistant Professors DAVID H. GILLESPIE, HERBERT OBERLANDER, GJERDING OLSEN (*Student Adviser*), RAYMOND E. STEPHENS; MRS. ELSIE HASSKARL.

Requirements for Concentration

A. Advanced Standing: Credit for Biological Science 1a and 2b or Biology 10 can be given upon successful completion of the Advanced Placement Examination with a grade of 3, 4, or 5. In order to concentrate in Biology, however, any such candidate must also pass a departmental examination which is equivalent to that given in Biology 10.

Entering students are eligible to receive advanced standing for Biology 10 upon successful completion of a departmental examination; the approval of the instructor, the biology staff and the Administrative Committee is required.

A student is eligible for advanced standing in *any course* in the Biology Department if he is (a) recommended for advanced standing by the staff member teaching the course in question and (b) if this recommendation is approved by the biology staff. Minimum requirement is the satisfactory passing of an examination equivalent to the final examination normally administered for the course for which advanced standing is requested. (See page 43, petitions.)

B. Required of all Candidates: Biology 10, 30a, 31b, 40a; Chemistry 10a,b, 25a,b; Mathematics 10 or its equivalent; Physics 10 or 11 and 19c.

C. Elective Courses: All candidates must select two semester courses from the following: Biology 30b, 32a, 34a, 35b, 41b; Biology courses numbered between 100 and 199; Chemistry 19b, 41a,b.

D. Students who wish to be considered for a distinction program in Biology should have a generally satisfactory academic record; honors grades in the core Biology courses are required. A candidate for distinction is required to petition the Biology staff at the beginning of his senior year. If action on this petition is favorable an honors program will be devised for the student. This may include laboratory research (under Biology 99), library research, a comprehensive program of appropriate additional undergraduate and graduate courses, or any combination of these. This honors program must be approved by the staff at the beginning of the senior year and must be successfully completed by the student in order to obtain distinction in Biology.

E. Students taking Biology 99 may receive from six to nine credits per year for this course. The number of credits will be determined by the research supervisor of the 99 course and the Department Chairman. In general, any senior who is taking Biology 99 is eligible for a four-course load during the year when he is taking Biology 99. A satisfactory written report including the results of an independent investigation is required by the Department.

F. Satisfactory grades must be maintained in all Biology courses offered for concentration, and no more than one D will be allowed in any other course offered toward the requirement in this Department.

Primarily for Undergraduates

BIOLOGICAL SCIENCE 1a.

The aim of this course is to introduce the student to biology and its place in the intellectual activities of man. To be discussed: what problems concern the biologist; biology as a bridge between physics and chemistry and the social sciences; how biological insight can enrich, and is even essential for, a wide range of fields from the social sciences to the humanities, and even the creative arts; and finally, the biologists' contribution to universal questions engaging every generation.

As a necessary background to discussion of these subjects selected areas of biology will be taught in specific detail.

Two courses in the mathematical and physical sciences listed in Group I (see page 71) are recommended but not required.

Three lectures per week, plus optional discussion periods when desired.

Mr. Kelner

BIOLOGICAL SCIENCE 2b.

This course will present current research findings relating to the basic phenomena of life—that is of metabolism, reproduction, sensitivity, reactivity, adaptation and control. Emphasis will be upon the processes not upon the organisms. Unresolved problems which are now, and in the future even more so, critically important to an informed person will be discussed.

Two lectures and one discussion meeting a week.

This course cannot be used to satisfy pre-medical requirements.

Prerequisite: Chemical Science 1a or permission of instructor.

Mr. Olsen

BIOLOGY 10. General Biology

Introduction to the more important principles of biology. This course is a prerequisite for concentration in Biology and for most courses offered in Biology. Students will be required to have had a course in Chemistry prior to enrolling in Biology 10.

Prerequisite: Chemistry 10a,b.

Three classroom and four laboratory hours a week. *8 credits per year.*

Laboratory fee: \$10 per semester.

*Messrs. Klein, Gillespie, Oberlander,
and Mrs. Hasskarl*

BIOLOGY 30a. Principles of Genetics

An intensive consideration of the gene, from its development as biology's most abstract concept to contemporary studies of its molecular nature and their consequence. Lectures, discussions of original research papers, and experiments will be intermixed to display the operational basis on which the gene theory rests.

Prerequisites: Biology 10 and Chemistry 25a,b.

Three classroom and three laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Fulton

***BIOLOGY 30b. Intermediate Genetics**

To be given in 1968-69.

BIOLOGY 31b. Cellular Physiology and Metabolism

Basic biological problems at the cellular level. Chemical composition of cells. Intracellular organization of enzymes, functions of nucleus, cytoplasm, mitochondria, and microsomes; membrane permeability.

Prerequisites: Biology 30a; Chemistry 25a,b.

Three classroom and three laboratory hours a week.

Laboratory fee: \$15.

Messrs. Schiff and Gibbs

*Not to be given in 1967-68.

BIOLOGY 32a. General Microbiology

An introduction to the biology (*i.e.*, genetics, physiology, morphology, and development) of primitive organisms, including the viruses, bacteria, yeasts, molds, and protozoa. The laboratory is designed to give the student a grounding in bacteriological techniques.

Prerequisite: Chemistry 25a,b (may be taken concurrently).

Three classroom and four laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Sussman

***BIOLOGY 34a. Principles of Evolution**

To be given in 1968-69.

***BIOLOGY 35b. Descriptive Anatomy of the Vertebrates**

To be given in alternate years.

BIOLOGY 40a. Developmental Biology

A consideration of developmental events in various organisms, with emphasis on the mechanisms by which organisms achieve an orderly progression of changes during their life cycles.

Prerequisite: Biology 31b.

Three classroom and three laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Zwilling

BIOLOGY 41b. General Physiology

Basic principles of physiology with special reference to vertebrates. Nerve, muscle, and other topics will be discussed. Examples of contemporary research will demonstrate the methods of attack used in physiological investigation.

Prerequisites: Chemistry 25a,b (may be taken concurrently); Biology 31b.

Three classroom and four laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Szent-Gyorgyi

BIOLOGY 98a or b. Readings in Biology

This course will be open to exceptionally well-qualified students to serve as an introduction into the research literature of biology.

Admission only with the permission of the department. This is a one-semester course that can be taken either in the Spring or Fall term for a maximum of 3 credits.

Staff

BIOLOGY 99. Senior Research

This course will involve the student in an independent research project conducted under the supervision of a staff member. It will serve as an intensive introduction to specific methods of biological research. The experimental findings are to be presented in writing to the department for approval.

Admission only to students with an honor record in Biology and with the permission of the Department and of the staff member proposed as the research supervisor.

6 to 9 credits by arrangement with the instructor and staff.

Staff

*Not to be given in 1967-68.

For Undergraduate and Graduate Students

Admission to any of the following courses in Biology requires the consent of the instructor.

BIOLOGY 101a. Comparative Physiology of Animals

An intensive comparison will be presented of the mechanisms which diverse organisms have evolved to deal successfully with similar environmental challenges. Similarities and dissimilarities in the processes operating to regulate metabolism, reproduction, sensitivity and reactivity in animals will be studied.

Prerequisites: Biology 31b and 41b (or equivalent).

Three classroom and three laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Olsen

*BIOLOGY 102a. Comparative Physiology and Metabolism of Algae

To be given in 1968-69.

BIOLOGY 103b. Cell Structure and Function

Molecular architecture of the living cell and its relationship to life processes. The generalized cell, the cell in division, and the specialized cell will be considered from the viewpoint of classical cytology and also in terms of current biochemical, optical, and electron-optical studies.

Prerequisites: Biology 30a, 31b; Physics 10 or 11; Chemistry 10a,b and 25a,b.

Three classroom hours a week; demonstrations to be arranged. *Mr. Stephens*

BIOLOGY 106a. Developmental Plant Biology

The physiology and biochemistry of morphogenetic events in the life cycle of higher plants. Differentiation and growth of organs examined in terms of changing metabolic patterns.

Prerequisite: Biology 31b; Chemistry 25a,b; Biology 10.

Mr. Klein

*BIOLOGY 111b. Microbial Genetics

To be given in 1968-69.

*BIOLOGY 124a. Virology

To be given in alternate years.

BIOLOGY 131b. Problems in Animal Morphogenesis

A seminar discussion of problems encountered in studies of animal development. Current and older literature on designated topics will be evaluated.

Prerequisite: Biology 41a or equivalent.

Three classroom hours. *4 credits.*

Mr. Zwilling

BIOLOGY 141a. Physical Biology

Physical methods; treatment of experimental data; physical aspects of vision and hearing; introduction to radiobiology and theoretical biology; forces involved in biological events; structure and properties of membranes.

Prerequisite: Satisfactory grades in full year courses in biology, chemistry, mathematics, and physics.

Mr. Epstein

*Not to be given in 1967-68.

***BIOLOGY 145a. Optical Methods in Cell Biology**

To be given in 1968-69.

BIOLOGY 150b. Physical and Mathematical Bases of Molecular Biology

The application of principles of physics, physical chemistry, and mathematics to problems of biological interest including: thermodynamics, kinetics, photochemistry, radiochemistry, statistics, and related numerical methods.

Prerequisites: Mathematics through calculus, some acquaintance with physics and physical chemistry. Students are advised to consult the instructor regarding prerequisites.

Mr. Epstein

Biology Colloquium

Presentations by staff members and guest lecturers on original investigations. Open to all undergraduate and graduate students of the Department. *No credit.*

See Graduate School catalog for courses numbered 200 and above.

Biophysics Option

To encourage students wishing to concentrate in Biology to acquire the extra mathematical, physical, and chemical background needed for the area of Biophysics, the Department offers an option which contains a reduced number of biology courses and an increased number of courses in the other science areas.

In addition to the introductory courses in each science department, students will take: Mathematics 20 or equivalent; Chemistry 25a,b, 41a,b; Physics 20a,b; and three Biology courses chosen from among 30a, 31b, 32a, 103b, 141b.

Students with an honor grade average in science courses taken before the senior year may petition the Department to accept successful completion of this option as fulfilling the departmental requirements for distinction.

Chemistry

Professor MYRON ROSENBLUM, *Chairman*; Professors SAUL G. COHEN, PAUL B. DORAIN (*Graduate Student Adviser*), DAVID GINSBURG, SIDNEY GOLDEN, ERNEST GRUNWALD, JAMES B. HENDRICKSON, HERBERT H. HYMAN, HENRY LINSCHITZ (*Student Adviser*), ROBERT STEVENSON; Associate Professors E. HAYON, MICHAEL J. HENCHMAN, KENNETH KUSTIN, COLIN STEEL, AVNER TREININ, THOMAS R. TUTTLE, JR.; Assistant Professors PETER C. JORDAN, T. N. MARGULIS; DR. WILLIAM R. VITALE.

Requirements for Concentration

A. Required of all Candidates: Chemistry 10a,b or 15a,b; 19a,b or 30a; 25a,b; 41a,b; 42a; 121a; Mathematics through Mathematics 20, 21 or 22; Physics 10 or 11 and 19c. Admission to Chemistry 15a is by permission of the Department of Chemistry. It is recommended that Chemistry 41a,b be taken in the junior year.

B. Additional requirement for candidates for degrees with departmental honors: (1) Chemistry 110b; (2) The equivalent of two semester courses selected from advanced courses in Chemistry, Biochemistry or Physics or, with the approval of the Department of Chemistry, from other upper level offerings in the School of

**Not to be given in 1967-68.*

Science. Chemistry 99 or Biochemistry 99 may be used for partial fulfillment of this additional requirement.

C. If the courses selected in B (2) include two semester courses in Chemistry or Biochemistry, this program will meet the standards for certification by the American Chemical Society. A student who wishes to meet these standards must also pass a course in German or pass a German language examination.

Primarily for Undergraduates

CHEMISTRY 1a and 1aR. Chemical Science

A course in chemistry which traces the development of our knowledge concerning the structure of atoms and molecules, and the mechanisms of chemical reactions.

This course may be substituted for the second half of Physical Science 1a or 1b for completion of the first year General Education requirement in the physical sciences.

Messrs. Grunwald and Hendrickson

CHEMISTRY 10a,b. General Chemistry

Fundamental principles of chemistry: properties of chemical systems, kinetic-molecular theory, chemical equilibrium, atomic structure and the periodic system of the chemical elements, electrochemistry, and principles of chemical analysis.

All students taking Chemistry 10a,b, with the exception of those who are satisfying a General Education requirement, are required to take Chemistry 19a concurrently.

Messrs. Jordan, Margulis, Treinin, and Tuttle

CHEMISTRY 15a,b. General Chemistry

A basic course in chemistry, designed for students with good preparation or aptitude in science. This course is more thorough and intensive than Chemistry 10a,b and is recommended particularly for students majoring or planning further work in chemistry or in science.

All students taking Chemistry 15a, with the exception of those who are satisfying a General Education requirement, are required to take Chemistry 19a concurrently.

Prerequisite: Permission of the Department.

Mr. Henchman

CHEMISTRY 19a,b. General and Analytical Chemistry Laboratory

First semester: Laboratory exercises to accompany the lectures in General Chemistry including an introduction to qualitative analysis.

One lecture, Tuesday at 11, and 3 laboratory hours per week. Required of all students taking Chemistry 10a or 15a, with the exception of those who are satisfying a General Education requirement. 2 credits.

Second semester: Quantitative analysis and its application to the basic processes of chemistry, including acid-base reactions, electrochemical processes, oxidation-reduction, complex formation and ion exchange.

One lecture, Tuesday at 12, and 6 laboratory hours per week. 3 credits.

Chemistry 19b is not required of students taking Chemistry 10b or 15b, but may be taken independently after completion of Chemistry 10 or 15.

Laboratory fee: 19a, \$12; 19b, \$15.

Messrs. Dorain, Margulis and Tuttle

CHEMISTRY 25a,b. Organic Chemistry

Structure, reactions, preparation and uses of the compounds of carbon. The

laboratory will give experience in the important techniques of organic chemical practice and include synthesis of typical organic compounds.

Prerequisite: A satisfactory grade in one of the following courses: Chemistry 10a,b, 15a,b or equivalent, Chemistry 30a or 30aR.

Three classroom hours, Block IV; one laboratory lecture, Tuesday at 11: one 4½-hour laboratory period a week. *10 credits.*

Laboratory fee: \$10. per semester. *Messrs. Rosenblum, Stevenson and Vitale*

CHEMISTRY 30a and 30aR.

Replaced by Chemistry 19b. This number should be used in registering.

CHEMISTRY 41a,b. Physical Chemistry

An introduction to the theoretical foundations of chemistry dealing with thermodynamics, kinetic theory of gases, real gases, solids, liquids, solutions, electrochemistry and chemical kinetics.

Prerequisites: Satisfactory grades in Chemistry 10a,b, or equivalent, 30a (or consent of instructor), Mathematics 20 or 21 or the equivalent and Physics 10 or 11.

Mr. Linschitz

CHEMISTRY 42a. Physical Chemistry Laboratory

Basic measurements and techniques illustrating and applying physico-chemical principles; theory of errors, properties of gases, liquids and solutions, phase diagrams, electrochemistry, selected instrumental methods.

Prerequisites: Chemistry 19b or 30a (or consent of instructor), Chemistry 41a,b which may be taken concurrently.

Two afternoons per week. *3 credits.*

Laboratory fee: \$10.

Messrs. Linschitz and Treinin

CHEMISTRY 99. Undergraduate Research

Research assignment, which may include literature survey, independent laboratory work, and presentation of oral and written reports; weekly conferences with adviser.

Students must have completed the German requirement (see page 94) before registering for this course.

Prerequisite: Consent of Chemistry Department.

Hours and credits to be arranged.

Laboratory fee: \$10.

Staff

For Undergraduate and Graduate Students

Admission to any of the following courses in Chemistry requires the consent of the instructor.

CHEMISTRY 110b. Analytical Chemistry

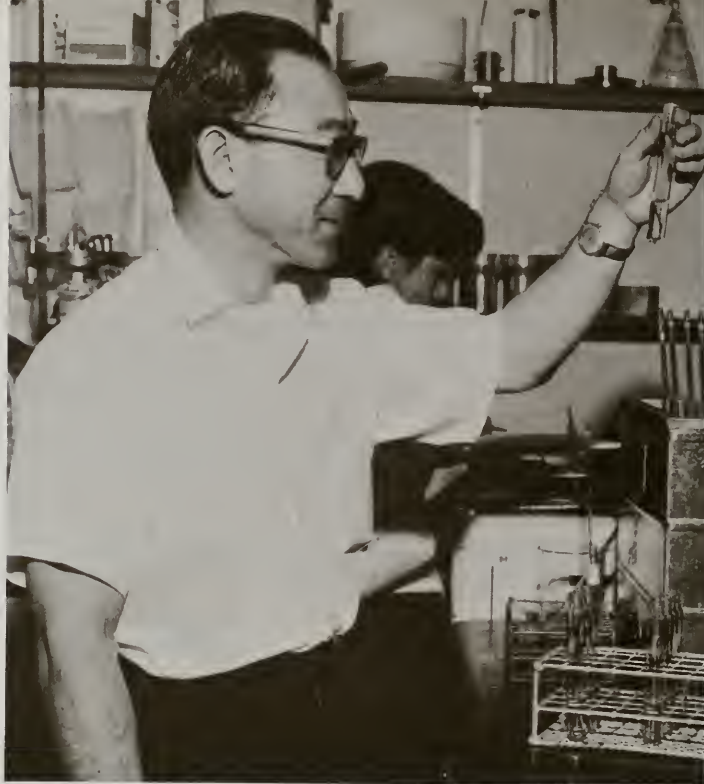
Principles and techniques involved in modern chemical analysis. Application of modern instrumental methods to the study of chemical and physical processes. Techniques used include polarography, spectroscopy, chromatography.

Prerequisite: Chemistry 41a,b which may be taken concurrently.

Two classroom and six laboratory hours a week. *4 credits.*

Laboratory fee: \$10.

Mr. Steel



CHEMISTRY 121a. Inorganic Chemistry I

Introduction to the principles of chemical binding; valence theory, periodic properties, molecular structures. Application chiefly to the chemistry of the lighter and non-metallic elements.

Inorganic synthesis and analysis; synthetic techniques include vacuum line, high temperature, non-aqueous and electrochemical preparations. Instrumental methods of analysis.

Prerequisite: Chemistry 41a,b or consent of instructor.

Three classroom hours a week, *3 credits*; six laboratory hours a week, *2 credits*.

Laboratory fee: \$10.

Mr. Hyman

*CHEMISTRY 122b. Inorganic Chemistry II

CHEMISTRY 123b. Nuclear Chemistry

Nuclear reactions, radioactive decay, interaction of radiation and matter, chemical applications of isotopic tracers, Mössbauer spectroscopy, positronium chemistry and cosmochemistry.

Mr. Henchman

CHEMISTRY 130a. Introduction to Organic Research

Techniques of organic analysis and synthesis, with emphasis on the use and interpretation of modern instrumental methods, including optical and magnetic spectroscopy.

Prerequisite: Chemistry 25a,b, or equivalent.

Two classroom and two three-hour laboratory periods a week. *4 credits*.

Laboratory fee: \$10.

Mr. Stevenson

*Not to be given in 1967-68.

CHEMISTRY 131a. Advanced Organic Chemistry

Stereochemistry, molecular rearrangements, kinetics and mechanisms of organic reactions.

Prerequisites: Satisfactory grades in Chemistry 25a,b and 41a,b or the equivalent. Chemistry 41a,b may be taken concurrently. *Mr. Cohen*

CHEMISTRY 132b. Synthetic Methods**CHEMISTRY 133b. Chemistry of Organometallic Compounds****CHEMISTRY 141a. Advanced Physical Chemistry**

A unified introduction to chemical thermodynamics, statistical mechanics and elementary wave mechanics.

Prerequisite: Chemistry 41a,b or equivalent. *Mr. Jordan*

CHEMISTRY 141b. Advanced Physical Chemistry

Continuation of Chemistry 141a.

Prerequisite: Satisfactory grade in Chemistry 141a. *Mr. Tuttle*

CHEMISTRY 144b. Structure Determination of Crystals and Molecules*CHEMISTRY 145a. Chemical Kinetics**

Kinetics of homogeneous and heterogeneous chemical change.

Prerequisite: Satisfactory grade in Chemistry 41a,b or the equivalent. *Mr. Steel*

See Graduate School catalog for courses numbered 200 and above.

Classics

Associate Professor DAVID S. WIESEN, *Chairman*; Assistant Professors NIKI C. SCOUFOPOULOS, DOUGLAS J. STEWART.

Requirements for Concentration

A. Eight semesters in Greek and Latin above the second year level, with at least two in each language.

B. Two semesters in Greek, Latin, or allied fields, as approved by the student's adviser.

C. A semester in Greek history and one in Roman history.

D. For honors candidates, Greek or Latin 99.

GREEK 1. Introductory Greek

Grammar and readings in Plato.

Greek 1 is a full year course and may not be dropped with credit at midyear.

Miss Scoufopoulos

GREEK 10. Tragedy and Epic

First Semester: Euripides.

Second Semester: Homer.

Prerequisite: Greek 1 or appropriate placement score or permission of instructor. *Miss Scoufopoulos, Mr. Stewart*

*Not to be given in 1967-68.

GREEK 98. Directed Reading

Special study of authors not covered in Greek 1-12, according to the individual needs of students. *Staff*

GREEK 99. Directed Research

Staff

GREEK 116. Comedy and History

First Semester: Aristophanes.

Second Semester: Thucydides.

Mr. Stewart

LATIN 1. Introductory Latin

Grammar and selected readings.

Mr. Stewart

LATIN 2. Intensive review

Readings in Cicero, Ovid, and Virgil.

Prerequisite: Latin 1 or appropriate placement score or permission of the instructor. *Miss Scoufopoulos*

LATIN 10. Lyric Poetry and History

First Semester: Catullus and Horace.

Second Semester: Sallust and Tacitus.

Prerequisite: Latin 2 or appropriate placement score or permission of instructor. *Mr. Wiesen*

LATIN 98. Directed Reading

Special study of authors not covered in Latin 1-14, according to the individual needs of students. *Staff*

LATIN 99. Guided Research

Staff

*LATIN 116. The Silver Age of Latin Literature

To be given in 1968-69.

LATIN 118. Bucolic and Didactic Poetry

First Semester: Virgil's *Eclogues* and *Georgics*.

Second Semester: Lucretius, *De Rerum Natura*.

Latin 116 and 118 are offered in alternate years. Messrs. Wiesen and Stewart

CLASSICS 4a. Pre-Classical Greek Art

See Fine Arts 31a.

Miss Loeffler

CLASSICS 4b. Classical and Post-Classical Greek Art

See Fine Arts 31b.

Miss Loeffler

CLASSICS 5. The Mind of Greece and Rome

An intensive study of the major Greek and Latin writers, considered against a broad cultural background.

See Humanities 5.

Staff

*Not to be given in 1967-68.

CLASSICS 104a. Minoan and Mycenaean Art

Architecture, painting, and the minor arts in Crete and mainland Greece during the Second Millennium B.C. Trade and interrelations in the Aegean Basin.

See Fine Arts 131a.

Miss Scoufopoulos

CLASSICS 107b. Greek Political Thought: The Tradition from the Age of Homer to Plato

An introduction to the origins and development of political speculation in Greece from the writings of Hesiod and Solon to the age of Plato. Taught in English.

See Philosophy 108b and Politics 191b.

Mr. Stewart

Comparative Literature

Committee: PROFESSOR EDWARD ENGELBERG (*Chairman and Student Adviser*); PROFESSORS MILTON HINDUS, DENAH L. LIDA; ASSOCIATE PROFESSORS STEPHEN J. GENDZIER, WILLIAM H. MATHESON; ASSISTANT PROFESSORS ANDRÉE COLLARD, LUIS E. YGLESIAS; MR. JOHN F. HECKMAN, MR. JAMES G. TRUSCOTT.

Requirements for Concentration: 12 semester courses.

A. Comparative Literature 97c plus Comparative Literature 145a, 145b, and either Comparative Literature 120b, 130a or 148bR. Concentrators must take 145a and 145b as a one-year course and must do so *in sequence*.

B. Two semester courses chosen from Comparative Literature 116bR, 141b, 148a, 175a, 181bR, 190b, or *one* of the courses not chosen under Requirement A.

C. Six semester literature courses, four of which must be taken in one foreign language; two in another literature, which may be English. Courses numbered 10 or 100 do not meet this requirement except in Russian and Italian.

D. All concentrators are required to present a Senior Thesis (see 97c). Honors will be awarded on the basis of cumulative excellence in the performance of the courses taken in the concentration and the Senior Thesis.

It is strongly recommended that concentrators take a composition course (French 106b, German 106a, or Spanish 106b; Italian 3aR or Russian 106bR) in the foreign language or languages in which they choose to work.

It is strongly recommended that concentrators (especially those who plan a graduate career in Comparative Literature) begin a second language.

In all Comparative Literature courses taken under Requirements A and B, concentrators are required to read in the original the works written in the language or languages of their concentration.

COMPARATIVE LITERATURE 61b. The Modern Novel

See Humanities 61b.

Mr. Hindus

COMPARATIVE LITERATURE 97c. Senior Seminar

Methods of comparative studies. Independent research toward senior thesis. Required of *all* concentrators.

Mr. Engelberg and Staff

COMPARATIVE LITERATURE 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

COMPARATIVE LITERATURE 116b. The Renaissance

A study of a revolution in ideas, attitudes, and literary modes as revealed in readings from such authors as Petrarch, Chaucer, Picino, Ronsard, Montaigne, Bruno, Greene.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of instructor. *Mr. Truscott*

COMPARATIVE LITERATURE 120b. Baroque and Classicism

The concept of the hero in relation to the world of the literary work in such authors as Donne, Tristan L'Hermite, Andreas Gryphius, J. C. Günther, Molière, Racine, Hamann, and Lessing.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of instructor. *Mr. Heckman*

COMPARATIVE LITERATURE 130a. The Enlightenment

Eighteenth century literature on the nature of man by such writers as Diderot, Fielding, Hume, Kant, Laclous, Locke, Richardson, Rousseau, Sade, Sterne, Swift, and Voltaire.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of instructor. *Mr. Gendzier*

COMPARATIVE LITERATURE 141b. The Picaresque Tradition in the Novel

An historical and critical analysis of works from *Lazarillo de Tormesto* to Thomas Mann's *Felix Krull*.

Prerequisite: Foreign Language 10 (or the equivalent) or permission of instructor. *Miss Collard*

COMPARATIVE LITERATURE 145a. European Romanticism I: The Flowering

Types of romantic heroes from Rousseau to Peer Gynt.

Prerequisite: Foreign Language 10 (or the equivalent) or permission of instructor. *Mr. Engelberg*

COMPARATIVE LITERATURE 145b. European Romanticism II: The Decline of Romanticism to Early Modernism

Developments of decadence and estheticism: E.T.A. Hoffmann, Kleist, Poe, Gogol, Baudelaire, Huysmans, Wilde, Thomas Mann.

Prerequisite: Foreign Language 10 (or the equivalent) or permission of instructor. *Mr. Engelberg*

***COMPARATIVE LITERATURE 148a. The Bildungsroman**

To be given in alternate years.

COMPARATIVE LITERATURE 148bR. The European Lyric since Valéry

The course will include works by Valéry, St. Jean Perse, René Char, Rilke, Gottfried Benn, Montale, Ungaretti, Lorca, *et al.*

Prerequisite: Foreign Language 10 (or its equivalent) or permission of the instructor. *Mr. Yglesias*

***COMPARATIVE LITERATURE 151b. The Classical Tradition**

To be given in alternate years.

*Not to be given in 1967-68.

COMPARATIVE LITERATURE 162b. Russian Fiction of the
Nineteenth Century: Tolstoy and Dostoevsky

See Russian 162b.

Mr. Rahu

COMPARATIVE LITERATURE 164b. Existentialism and European Literature

Kierkegaard, Sartre, Camus, Kafka.

See English 164b.

Mr. Swiggart

COMPARATIVE LITERATURE 175a. The Psychological Novel

An historical and critical analysis of form and theme in psychological fiction including works by such authors as Mme. de la Fayette, Goethe, Jane Austen, Dostoevsky, Rilke, Virginia Woolf, Camus, James, Hesse, Robbe-Grillet.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of the instructor.

Mr. Engelberg

*COMPARATIVE LITERATURE 180b. Continuity and Change in Modern Literature

To be given in alternate years.

COMPARATIVE LITERATURE 181bR. Don Juan

The development of the Don Juan theme in European and American literature and thought.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of the instructor.

Mrs. Lida

COMPARATIVE LITERATURE 185b. The African Theme

Prerequisite: Foreign Language 10 (or its equivalent) or permission of the instructor.

Mr. Duffy

COMPARATIVE LITERATURE 187a. History of Criticism: Plato to Dryden

See English 187a.

Mr. Smith

COMPARATIVE LITERATURE 190b. Modern Continental Literary Criticism

Idealism, Estheticism, Symbolism and some counter-movements as expressed in the work of such writers as Schiller, Goethe, Baudelaire, Taine, Pater, Tolstoy, Croce, Freud, Valéry, Ortega y Gasset, Mann.

Prerequisite: Foreign Language 10 (or its equivalent) or permission of the instructor.

Mr. Engelberg

Computer Science

COMPUTER SCIENCE 17a. Introduction to Numerical Methods and Computer
Programming

Numerical solution of algebraic and differential equations, elements of statistical analysis and linear programming, FORTRAN programming and practical exercises on IBM 1620 and 7094 computers.

Prerequisite: Mathematics 10 which can be taken simultaneously, or permission of instructor.

Open to freshmen with permission of instructor.

Mr. Chrétien

*Not to be given in 1967-68.

COMPUTER SCIENCE 27b. Computer Programming and Application

Introduction to computers and computer programming with applications in statistics and scientific computation. General principles of programming will be supplemented by practical utilization of the IBM 1620 and 7094 computers.

Prerequisite: Mathematics 10 or permission of instructor. Knowledge of FORTRAN programming language. *To be announced*

COMPUTER SCIENCE 45a,b. Tutorial in Computer Science

Open to students with extensive background in computer programming and applications. By permission of instructor. *Mr. Chrétien*

Economics

Associate Professor RICHARD S. WECKSTEIN, *Chairman*; Professors JOSEPH S. BERLINER, LOUIS LEFEBER; Associate Professors ROBERT EVANS, JR., GERALD ROSENTHAL; Assistant Professors SANJIT BOSE, STEPHEN S. COHEN, ROBERT W. HARTMAN (*Student Adviser*), BARNEY K. SCHWALBERG.

Requirements for Concentration

A. All concentrators must complete satisfactorily each of the following:

1. Economics 1a, 1b, 80a, 82b, 83a.

2. One additional semester course numbered below Economics 80.

3. Three additional semester courses numbered above Economics 83. Reading courses, Economics 98a and b, may not be used to fulfill this requirement.

B. Candidates for departmental honors must complete satisfactorily Economics 97c and 99 in addition to the above.

Where prerequisites are listed, they must be fulfilled satisfactorily before enrollment in the stipulated course, except in extraordinary circumstances with permission of the Chairman of the Department.

ECONOMICS 1a. Introduction to Economics

A study of the principal economic issues facing advanced industrial societies, with special emphasis on problems of full employment and the relation of fiscal and monetary policies to this goal.

Open to freshmen.

Mr. Hartman

ECONOMICS 1aR. Introduction to Economics

Mr. Hartman

ECONOMICS 1b. Introduction to Economics

Two main topics are discussed: (a) the internal organization of the economy by means of the price system, and (b) the world economy, including international trade and the problems of economic development of rich and poor countries.

May precede Economics 1a.

Staff

ECONOMICS 1bR. Introduction to Economics

Staff

ECONOMICS 22a. American Economic History

Economic growth of the United States, with attention given to the relationship between agricultural transportation and industrial developments and to

changes in commercial organization, the organization of labor and the role of government.

Prerequisites: Economics 1a and 1b.

Mr. Evans

***ECONOMICS 24a. The Soviet Economy**

ECONOMICS 34aR. Government: Expenditures and Taxation

Deals with the proper scope of government and private economic activity; effects of taxation on equity and efficiency; problems of cost and choice in government expenditures. Case studies to include government activities in the fields of education, national defense, and urban renewal.

Prerequisites: Economics 1a and 1b.

Mr. Hartman

ECONOMICS 37a. The Political Economy of Cities

A study of the city as both an economy and a polity. The development of cities, the relationship to community and metropolis are explored. Municipal finance, land use and transportation are considered in particular. Urban renewal and planning techniques are examined.

Prerequisites: Economics 1a and 1b.

Mr. Cohen

ECONOMICS 46b. The World Economy: Trade and Development

A survey of patterns of world trade and capital movement including a study of imperialism in the 19th-20th centuries. Special attention is given to the problems of underdeveloped countries and their developing need for trade and capital. Proposals are studied for the reorganization of world economic institutions aimed at meeting these needs.

Prerequisites: Economics 1a and 1b.

Mr. Weckstein

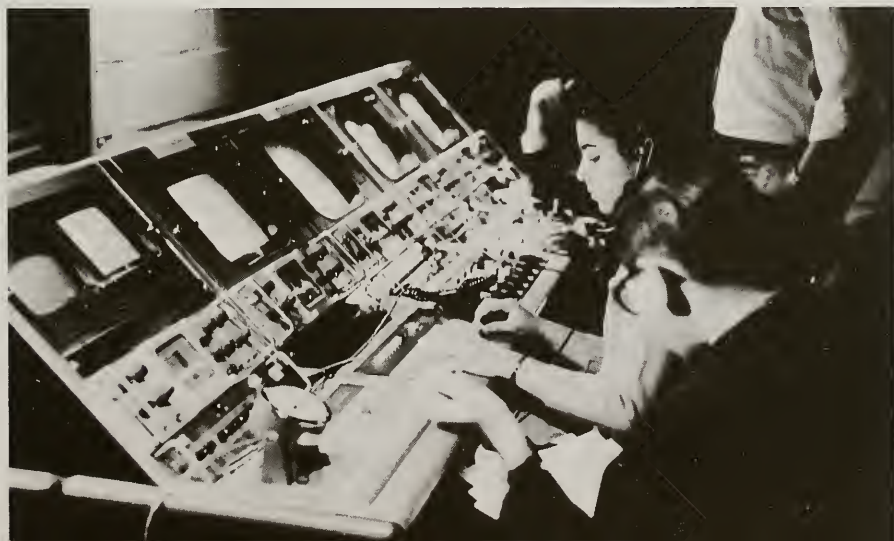
ECONOMICS 48b. Bargaining and Strategy

Theories of strategy are applied to problems of collective bargaining between labor unions and business firms, oligopoly, war, arms control, international relations, and conflict resolution. Policy implications for institutional reform are derived where possible.

Prerequisites: Economics 1a and 1b.

Mr. Rosenthal

*Not to be given in 1967-68.



***ECONOMICS 58b. Poverty and Social Welfare in the United States**

ECONOMICS 75a. The Economics of Underdeveloped Countries

An examination of the causes and characteristics of economic underdevelopment. Attention will be given to particular countries within the underdeveloped world.

Recommended for Latin American Studies concentrators.

Prerequisites: Economics 1a and 1b.

Mr. Weckstein

ECONOMICS 76b. Wages and Employment

The micro- and macro-economics of labor. Wage theory, employment theory, the causes of specific kinds of unemployment, wage-price guidelines, wage structure, criteria for the efficient allocation of labor are some specific applications considered.

Prerequisites: Economics 1a and 1b.

Mr. Evans

ECONOMICS 80a. Price Theory

A study of resource allocation under various forms of market organization; theory of consumer behavior; theory of the firm; prices of factors of production; general equilibrium.

Prerequisites: Economics 1a and 1b.

Mr. Bose

ECONOMICS 80aR. Price Theory

Mr. Bose

ECONOMICS 82b. National Income Analysis

The meaning of the national income concepts, and their development through business accounting; the factors determining the level of national income and employment; the influence of governmental fiscal and monetary policies.

Prerequisites: Economics 1a and 1b.

To be announced

ECONOMICS 82bR. National Income Analysis

To be announced

ECONOMICS 83a. Introduction to Quantitative Economics

A first course in statistical inference. Topics include: descriptive statistics, probability theory, testing hypotheses, analysis of variance correlation and regression, and problems in the analysis of economic time series.

Prerequisites: Economics 1a and 1b. First courses in calculus and linear algebra are not required but would be helpful.

Mr. Schwalberg

ECONOMICS 84b. Econometrics

An introduction to the construction and testing of econometric models. Single and multiple equation models will be treated with special emphasis on the analysis of economic time series.

Prerequisites: Economics 80a, 82b, and 83a.

To be announced

ECONOMICS 97c. Senior Honors Colloquium

A seminar on research methods limited to, and required for, seniors who are registered in Economics 99.

Mr. Bose and Staff

ECONOMICS 98a and b. Readings in Economics

Readings and reports under the direction of a faculty supervisor. Available to seniors with permission of the Department.

Staff

*Not to be given in 1967-68.

ECONOMICS 99. Senior Research

Seniors who are candidates for degrees with distinction in Economics are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic. *Staff*

ECONOMICS 100b. Workshop in Urban Economics

Cases in selected aspects of metropolitan finance, transportation and land use. Case material will be studied in relation to theories of political power, bureaucracy, pricing, externalities and location.

It is recommended that Economics 37a have been taken.

Prerequisites: Economics 80a and 83a.

Mr. Cohen

ECONOMICS 130bR. Introduction to Mathematical Economics

The application of mathematical methods to a range of problems in economic theory.

Prerequisites: Economics 80a and 82b.

Mr. Bose

ECONOMICS 132b. Comparative Economic Organization

A critical evaluation of the major kinds of economic organization now in operation. Included are the U.S. Market economy, the French form of centrally-planned capitalism, the Soviet centrally-directed economy, and the Yugoslavian form of market socialism.

Prerequisites: Economics 1a and 1b.

Mr. Schwalberg

ECONOMICS 135b. Industrial Pricing Behavior

An examination of the decision-making process in the present-day business firm, including examination of some dissenting views with respect to the conclusions of marginal price analysis.

Prerequisite: Economics 80a.

Mr. Lefebber

ECONOMICS 140a. Theories of Economic Development

An examination of modern theories of economic development and underdevelopment. The rules of capital accumulation, technological change, and efficiency are distinguished. Emphasis is centered on development policies and planning.

Prerequisites: Economics 80a and 82b. Some knowledge of calculus will be assumed.

Mr. Lefebber

ECONOMICS 150b. Social Economics*ECONOMICS 154bR. Economic Aspects of Medical Care**

A study of the economic aspects of the production and distribution of medical-care services. Among the topics to be considered are the economic role of physicians, the structure of health manpower, the social and economic consequences of alternative methods of payment, and the role of government in the medical-care market.

Prerequisite: Economics 80a or permission of instructor.

Mr. Rosenthal

ECONOMICS 156b. Welfare Economics

A study of the foundations of economic policy. Topics include the evaluation of competitive equilibrium, the status of individual and community utility judg-

*Not to be given in 1967-68.

ments, and judgments on the distribution of income. Implications for public policies are considered.

Prerequisite: Economics 80a.

Mr. Weckstein

***ECONOMICS 157. American Industrial Growth**

See History 157.

ECONOMICS 160b. International Trade

International monetary arrangements, foreign exchanges and exchange control, the theory of international trade and price relationships, capital movements and labor migration, customs unions, the theory of international liquidity.

Prerequisites: Economics 80a and 82b.

Mr. Lefebvre

ECONOMICS 170a. Monetary and Fiscal Policy

The role of monetary and fiscal policy in achieving economic goals of the United States. Existing institutions and proposed reforms are studied.

Prerequisite: Economics 82b.

Mr. Hartman

ECONOMICS 172b. Comparative Labor Problems

Relations between labor and the economy are considered in two senses. One, how growth of manpower and the labor force affects general economic development, and two, how economic development in turn affects the evolution of labor institutions. These are explored in the history of the United States, Japan, and other cases of interest.

Prerequisite: Economics 80a.

Mr. Evans

ECONOMICS 190a. Advanced Topics in Economic Policy

Prerequisites: Economics 80a and 82b. Students registering for this course must have a B average.

Mr. Lefebvre

ECONOMICS 190b. Advanced Topics in the Theory of Growth and Capital

Prerequisite: Economics 130bR. Students registering for this course must have a B average.

Mr. Bose

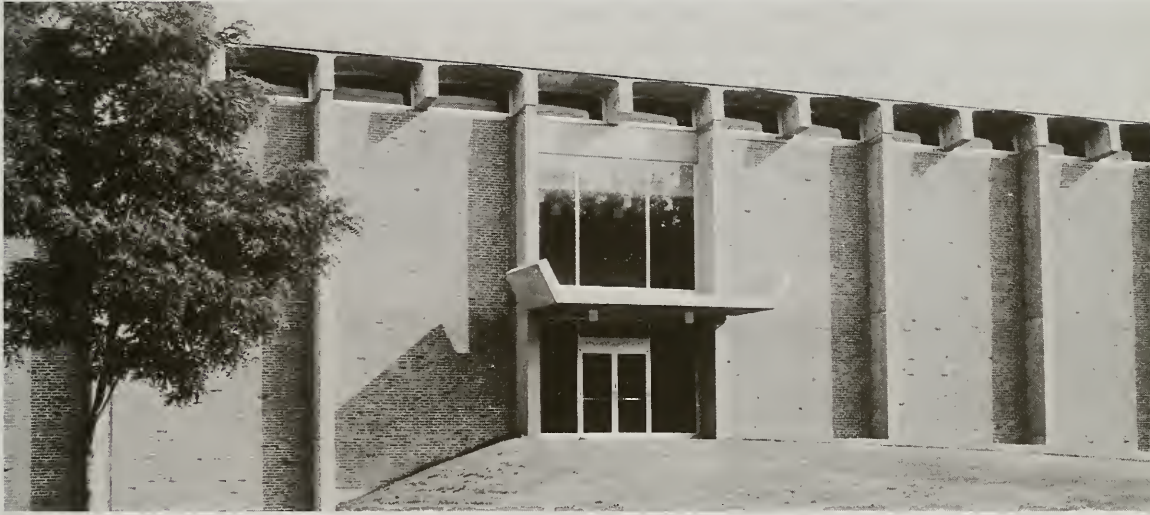
Education

Committee: DR. JOHN B. WIGHT, *Chairman*; Assistant Professor JACK REITZES (*Secretary and Director*); Professor ROBERT O. PREYER; Associate Professor DAVID H. FISCHER; Assistant Professors ROBERT V. LANGE, THOMAS N. MARGULIS.

This program is intended to supplement the liberal arts curriculum for the student planning to teach in elementary or secondary school. A student cannot select Education as a field of concentration, but the student who completes the Education Program will acquire at least fifteen credits toward a teaching certificate.

The committee admits the qualified student to the program in the second semester of his junior year. Applications should be filed with the director. Each

*Not to be given in 1967-68.



Linsey Sport Center

applicant is advised to complete one semester course from each of the following groups (A and B) prior to his senior year:

Group A

Psychology 15b

Psychology 30b

Psychology 155a

Group B

Philosophy 23b

History 160b

Each senior accepted in the Education Program must enroll in Education 10 and in either Education 1c or 2a.

The director of the Education Program serves as adviser to any undergraduate interested in preparing himself for a career in elementary or secondary school teaching. A student interested in the Education Program should consult the director during the freshman or sophomore year, and apply early in the second semester of the junior year.

EDUCATION 1c. Seminar: Teaching in the Elementary School

Methods and principles. Existing and proposed curricula in reading, mathematics, science, social studies, and other areas examined and discussed with seminar staff teachers from program laboratory school (Bridge Elementary School, Lexington).

Meets two hours each week in the fall and one hour each week in the spring. Enrollment limited to seniors approved by the Faculty Committee on Education.

Mr. Reitzes and Staff

EDUCATION 2a. Seminar: Teaching in the Secondary School

Methods and principles for secondary school subjects. Individual and group tutorial work with teacher-consultants in particular subject areas.

To be taken concurrently with Education 10. Enrollment limited to seniors approved by the Faculty Committee on Education.

Mr. Reitzes and Staff

EDUCATION 10. Practice Teaching

Observation and student teaching in elementary or secondary schools under supervision of experienced teachers; regular conferences to discuss and evaluate the teaching experience.

A minimum of 180 hours of practice teaching, to be taken in a single term during the senior year. Secondary schools—Fall semester; Elementary schools—Spring semester.

Enrollment limited to seniors approved by the Faculty Committee on Education. Students must reserve at least every morning in one term for this course. Fall Term—6 credits; Spring Term—6 credits.

Mr. Reitzes

English and American Literature

Professor VICTOR HARRIS, *Chairman*; Professors JAMES V. CUNNINGHAM, MILTON HINDUS, HOWARD NEMEROV, ROBERT O. PREYER, PHILIP RAHV, VICTOR S. PRITCHETT, AILEEN WARD; Associate Professors ALLEN GROSSMAN, BENJAMIN B. HOOVER, JOHN H. SMITH, PETER SWIGGART; Assistant Professors SACVAN BERCOVITCH, CHARLES R. BLYTH, JR., ARTHUR EDELSTEIN, THOMAS H. JACKSON, S. JAY KEYSER, IRA KONIGSBERG, ALAN LELCHUK, ALAN LEVITAN, RICHARD ONORATO, DAVID M. PERLMUTTER, S. SUSAN STAVES; MR. HARRISON HOBLITZELLE, JR., DR. JOHN B. WIGHT (*Student Adviser*).

Requirements for Concentration

Required of all Candidates: Ten semester courses. These include a course in method, English 1a or 111a; courses in Chaucer and Shakespeare, English 2b and 3a; five period courses in English and American Literature or their tutorial equivalents, English 4a or 104a or 141a; 5b or 105a or 115b; 6b or 106a; 7a or 107a or b; 8a or 108b; a course in either linguistics or criticism, English 121a, 122a, 187a, 192b, and English 100a or b, the comprehensive examination.

The tutorials (English 104a through 108b) are limited in enrollment to fifteen students.

In addition to the courses listed below, students should consult offerings in Humanities, Comparative Literature, and Theater Arts.

Primarily for Undergraduates

ENGLISH 1a and 1aR. Introduction to the Study of Literature

A course designed to train students in the techniques of literary study through an investigation of certain major forms of literature—poetry, fiction, and the drama.

Restricted to freshmen.

Messrs. Onorato and Swiggart

ENGLISH 2b. Chaucer

Troilus and Criseyde and The Canterbury Tales.

Mr. Blyth

ENGLISH 3a and 3aR. Shakespeare

Messrs. Edelstein, Cunningham and Levitan

ENGLISH 4a. Early English Literature: Beowulf to Everyman

Mr. Blyth

ENGLISH 5b. The Seventeenth Century

Mr. Harris

ENGLISH 6a. The Eighteenth Century

The poetry, prose satire, novel, drama, criticism, and biography of the eighteenth century studied in relation to three major themes. Pope, Swift, Gay, Fielding, Boswell, Johnson, Sheridan, Austen, Blake, Wordsworth, Coleridge. *Mr. Hoover*

ENGLISH 7b. English Literature: Victorian Period

A study of the major English literary works from 1832 to 1900. *Mr. Preyer*

ENGLISH 8a. American Literature from 1832 to 1900

Mr. Hindus

ENGLISH 9b. American Literature from 1900 to 1965**ENGLISH 55a. Yeats, Synge, Joyce****ENGLISH 62b. American Poetry of the Nineteenth Century**

A study of the major works of the more important American poets of the period. *Mr. Edelstein*

ENGLISH 72a. Character and Society in the Victorian Novel

A study of selected novelists (*e.g.*, Dickens, Eliot, Trollope, Gissing, Hardy), tracing their ideas about society and man's place in it. *Mr. Lelchuk*

ENGLISH 73a. Shaw and His Contemporaries*ENGLISH 81b. The Literature of Oppression**

The course will deal with literary uses of the theme of oppression in various periods, with the role of the victim, with the symbolic value of oppression. A selection of the following will be read: *Trojan Women, Jew of Malta, The Invisible Man, Uncle Tom's Cabin, Oliver Twist, Brothers Ashkenazai, Native Son, In Dubious Battle, The Fixer*, Old Testament stories. *Mr. Jackson*

ENGLISH 90a. Independent Study

Mr. Levitan

ENGLISH 90b. Independent Study

Mr. Onorato

ENGLISH 100a or b. Comprehensive Examination

An examination, required of concentrators in English, on the ability to interpret and evaluate literary works, given in December and April. The list of works will be announced at the beginning of each semester.

Messrs. Bercovitch and Lelchuk

ENGLISH 105a. Science and Imagination in the Seventeenth Century

Mr. Harris

ENGLISH 106b. Satire and the Novel

Novelistic elements in prose satire and satiric elements in the novel during the Augustan and Romantic periods. Swift, Fielding, Smollett, Sterne, Burney, Austen, Peacock. *Mr. Hoover*

ENGLISH 107b. Blake and Keats

A close reading of the works of two contrasted poets, in an effort to assess their individual achievements in poetry and to relate them to their common ground in the Romantic movement. *Miss Ward*

*Not to be given in 1967-68.

- ENGLISH 108a. Melville, Poe, Mark Twain *Mr. Swiggart*
- ENGLISH 109b. The Novel in the Twentieth Century
James, Conrad, Wells, Ford, Lawrence, Woolf, Forster. *Mr. Nemerov*
- ENGLISH 111a. Introduction to Literary Method
Not open to freshmen. *Mr. Preyer*
- ENGLISH 115b. Milton
A study of Milton's complete poetry and selected prose works. *Mr. Smith*

For Undergraduate and Graduate Students

- *ENGLISH 121a. Old English
- *ENGLISH 122a. Medieval Literature: A Thematic Study of Piers Plowman and
other Related Texts
- ENGLISH 125b. Restoration Drama *Miss Staves*
- *Not to be given in 1967-68.



ENGLISH 141a. Spenser's Major Poetry

A study of the *Faerie Queene*, *Shephearden Calender*, *Amoretti* and *Epithalamion*, and *Fowre Hymns*, with some attention to the literary and politico-religious conditions which influenced Spenser's writing.

Mr. Smith

ENGLISH 142b. Elizabethan and Jacobean Drama*ENGLISH 145b. English Religious Poetry in the Seventeenth Century**

An enquiry into the religious poetry of Jonson, Southwell, Herbert, Donne, Vaughan, Traherne, Marvell, and the earlier Milton with some emphasis on the philosophy of religious experience on the one hand and the practical problem of making statements about poems on the other.

Mr. Grossman

ENGLISH 155b. Romantic Poetry

Mr. Onorato

ENGLISH 156a. Blake and Yeats

Mr. Grossman

ENGLISH 162a. The Eighteenth Century Novel

Mr. Konigsberg

ENGLISH 164b. Existentialism and European Literature

Kierkegaard, Sartre, Camus, Kafka.

See Comparative Literature 164b.

Mr. Swiggart

ENGLISH 172a. The Nineteenth Century English Novel

Mr. Lelchuk

ENGLISH 174a. The Beginnings of Modern Poetry

A study of the Pre-Raphaelites, Swinburne, the Decadents, Pound, Yeats, Eliot, W. C. Williams, and Stevens.

Mr. Jackson

ENGLISH 180b. Continuity and Change in Modern Literature**ENGLISH 185a. The Literature of Transition: Classical to Romantic****ENGLISH 187a. History of Criticism: Plato to Dryden**

See Comparative Literature 187a.

Mr. Smith

ENGLISH 187b. The English Essay

A study of the essay from Bacon through Carlyle and Emerson to the present.

Limited enrollment.

Mr. Pritchett

ENGLISH 188b. Studies in the Literature of Nineteenth Century Thought

Social critics (Carlyle, Ruskin, Arnold, Emerson, Thoreau, Tolstoy, Gandhi) and their legacy. The intellectual backgrounds of certain contemporary dilemmas: peace and war, mechanization and human values, social involvement and withdrawal.

Mr. Hoblitzelle

ENGLISH 191a. Introduction to Linguistics

This course begins with a survey of the philosophical, psychological, and biological foundations of human language. It focuses on the outstanding questions which an adequate theory of language must answer and considers in some detail current attempts to answer them.

See Linguistics Program.

Mr. Keyser

*Not to be given in 1967-68.

ENGLISH 192a. Linguistics and Literature

This course begins with an extended discussion of prosodical systems and, using the ensuing theory of prosody as a paradigm case for theory-making about literature, attempts to outline what the requirements might be for theories of more elaborate literary structures.

See Linguistics Program.

Mr. Keyser

ENGLISH 192b. History of the English Language

The structure of modern English syntax and phonology is outlined and the ways in which these components developed are discussed. Included will be an investigation of changes in metrical systems entailed by concurrent changes in the linguistic systems on which they are constructed.

See Linguistics Program.

Mr. Keyser

ENGLISH 193b. Advanced Problems in Phonology

A seminar in phonology in the light of universal grammar. Students will have the opportunity to do original work in phonology.

Prerequisite: Consent of the instructor.

See Linguistics Program.

Mr. Keyser

ENGLISH 194a. English Syntax

Exploration of the syntactic component of a grammar of English. Data which the grammar must account for, syntactic rules which are necessary to account for the data, and considerations which impinge on the structure of the syntactic component.

See Linguistics Program.

Mr. Perlmutter

ENGLISH 194b. Typology of Languages

The problem of the range of variation among languages and the universals of language which both make possible and limit such variation. The course will focus on the aspects of language—suprasegmental phonology (stress, pitch-accent, and tone languages) and syntax. It will draw on data from the Germanic, Romance, Slavic, Kwa, Iroquoian, Chinese, and Japanese languages.

See Linguistics Program.

Mr. Perlmutter

ENGLISH 195a. Philosophy of Grammar

From a brief survey of the structuralist theory of grammar and the considerations which gave rise to the development of transformational grammar, the course will proceed to a detailed study of current issues in grammatical theory in the light of the constraints imposed on the theory by the syntactic and semantic evidence in natural languages. The course will conclude with a brief survey of several of the pre-modern grammatical traditions of Europe and Asia and their philosophical orientations.

See Linguistics Program.

Mr. Perlmutter

ENGLISH 195b. Advanced Problems in Syntax

A seminar in syntax in the light of universal grammar. Each student will present a paper based on original research.

Prerequisite: Consent of the instructor.

See Linguistics Program.

Mr. Perlmutter

See Graduate School catalog for courses numbered 200 and above.

ENGLISH COMPOSITION 1a and 1aR. Introduction to Writing

Weekly exercises in the various forms of writing.

This course fulfills the General Education requirement in English Composition.

Mr. Wight and Staff

ENGLISH COMPOSITION 102a and b. Directed Writing: Poetry

Mr. Nemerov

In addition, during the second semester, Professor V. S. Pritchett will give a series of six public lectures on English Comedy, Past and Present.

English and Classics

Committee: DR. JOHN B. WIGHT, Chairman.

Requirements for Concentration

A. Three year-courses in the required English sequence, English 1a to 8a.

B. Three year-courses in Latin above the Latin 1 level or three year-courses in Greek above the Greek 1 level.

C. One year-course of independent study (English 90a and b).

It is recommended, though not required, that a student offering the combination of English and Latin also acquire an elementary knowledge of Greek and that a student offering the combination of English and Greek also acquire an elementary knowledge of Latin. A student's course of study in this field may be supplemented by appropriate courses in history, philosophy, art, and archeology.

No course which is offered in fulfillment of the general language requirement may be counted toward concentration in this field.

European Languages and Comparative Literature**Romance Languages and Comparative Literature**

Professor MURRAY SACHS, Chairman.

Comparative Literature

Professor EDWARD ENGELBERG.

French

Professors YVES BONNEFOY, MURRAY SACHS; Associate Professors STEPHEN J. GENDZIER (*Language Coordinator*), WILLIAM H. MATHESON (*Student Adviser*); Assistant Professor RALPH TARICA; Miss DANIELLE BOHLER, Mr. GEORGE T. DILLER, Mr. LINCOLN D. HAMMOND, Mr. JOHN F. HECKMAN, M. JEAN-CLAUDE MAÎTRE, Miss MORDECA J. POLLOCK, Mrs. JANINE REISMAN.

Italian

Mr. JAMES G. TRUSCOTT.

Spanish

Professors JAMES E. DUFFY (*Student Adviser*), DENAH L. LIDA; Assistant Professors ANDRÉE COLLARD, LUIS E. YGLESIAS; Mrs. CONSTANCE H. ROSE.

Germanic and Slavic Languages

Professor HARRY ZOHN, Chairman.

German

Professor HARRY ZOHN (*Student Adviser*); Assistant Professor LAURA HOURTIENNE; MR. MICHAEL BAUMANN, MR. JOHN J. VIERTTEL.

Russian

Assistant Professors ROBERT SZULKIN (*Student Adviser*), CHARLES GRIBBLE (*Language Laboratory Coordinator*); MISS ELIZABETH P. SESSIONS.

For course offerings and requirements for concentration, *see* Comparative Literature, French, German, Italian, Linguistics, Russian, and Spanish.

Fine Arts

Associate Professor JOACHIM E. GAEHDE, *Chairman*; Professors CREIGHTON GILBERT, PETER GRIPPE, WILLIAM C. SEITZ, MITCHELL SIPORIN; Visiting Artist LEON POLK SMITH; Assistant Professors ROBERT W. BERGER, GERALD S. BERNSTEIN, IRVING L. FINKELSTEIN, ELAINE P. LOEFFLER, MICHAEL B. MAZUR, FRANCIS L. RICHARDSON; MR. ROBERT J. MAEDA.

Requirements for Concentration

The Fine Arts concentrator may elect his concentration in either of two subdivisions: (1) Applied Arts (Studio), or (2) Art History and Criticism.

A. All Fine Arts concentrators will take a total of seven year-courses or the equivalent within the department, to include the following:

2 semesters of early period courses (numbered 20a; 30-49; 130-149)

3 semesters of later period courses (numbered 20b; 50-79; 122a; 150-179)

1 semester in Oriental art (80-89; 180-189)

Fine Arts 1, 103

B. Studio concentrators will take four additional semesters of studio electives.

C. History concentrators will take four additional semesters of art history electives.

None of the above requirements may be altered except with departmental approval.

FINE ARTS 1. Elements of Design in Art

Theoretical and visual study of the meaning in pictorial form. Studio work in various color and drawing media.

Three studio hours per week.

Fine Arts 1 is a year course and may not be dropped with credit at midyear.

Mr. Mazur

FINE ARTS 20a. Introduction to the History of Art 1: Antiquity and the Middle Ages

Enrollment in each section limited to 35.

Miss Loeffler, Messrs. Berger, Bernstein and Gaehde

FINE ARTS 20b. Introduction to the History of Art 2: From the Renaissance to the Modern Age

Enrollment in each section limited to 35.

Messrs. Berger, Bernstein, Finkelstein and Richardson

FINE ARTS 31a. Pre-Classical Greek Art

See Classics 4a.

Miss Loeffler

FINE ARTS 31b. Classical and Post-Classical Greek Art

See Classics 4b.

Miss Loeffler

FINE ARTS 41a. Early Christian and Byzantine Art

A study of form and meaning in architecture, sculpture, and painting from the beginning of the Christian era to the Fall of Constantinople.

Mr. Gaehde

FINE ARTS 42b. Medieval Art in Western Europe

Architecture, sculpture, and painting from the migrations to the end of the Gothic period.

Mr. Gaehde

FINE ARTS 51b. Art of the Early Renaissance in Italy

Major painters, sculptors and architects in Rome, Florence and Venice from Giotto to Leonardo da Vinci.

Mr. Richardson

***FINE ARTS 54a. Renaissance Art in Northern Europe**

To be given in 1968-69.

***FINE ARTS 58b. The High Renaissance in Italy**

To be given in 1968-69.

FINE ARTS 70a. Nineteenth Century French Painting

Emphasis on: David, Delacroix, Ingres, Courbet, Manet, Degas, Monet, Seurat, Cezanne, Van Gogh, Gauguin.

Mr. Finkelstein

FINE ARTS 71b. Art of the Twentieth Century

Twentieth century painting, sculpture and architecture in Europe and America.

Mr. Finkelstein

FINE ARTS 98a and b. Independent Study

Readings and reports on a special project under the direction of a faculty adviser. Available to seniors with the permission of the department.

Staff

FINE ARTS 99. Senior Research**FINE ARTS 102. Theory and Practice of Painting**

Organization of natural and abstract forms in space. Psychological and emotive potentialities of composition and color. Exploration of the working materials of the painter.

Prerequisite: Fine Arts 1 or consent of the instructor.

Three studio hours per week.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 103. Life Drawing

Observation and study of basic shapes in nature and their application to drawing the figure.

Prerequisite: Fine Arts 1 or consent of the instructor.

Three studio hours per week.

Studio fee: \$5. per semester.

Mr. Grippe

*Not to be given in 1967-68.



FINE ARTS 104. Advanced Life Drawing

Advanced study of drawing with special emphasis on the human figure, its anatomy and structural design. Individual expression is encouraged and the use of drawing in pictorial composition is explored.

Prerequisite: Fine Arts 103 or consent of the instructor.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 108. Advanced Painting

A workshop course which will stress creative individual work in painting. The study of natural forms, as well as the organization of forms from the imagination will be undertaken. The various media of painting and the employment of the technical means of art towards personal artistic expression in painting will be explored.

Prerequisite: Consent of the instructor.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 111. Sculpture

Introduction to problems of modeling in clay and wax, coloring and glazing of tiles, slip making and firing. Compositions from life and from the imagination in bas relief and in the round.

Three classroom hours and three hours of informal studio work per week.

Prerequisite: Fine Arts 1 or 103 or consent of the instructor.

Studio fee: \$15. per semester.

Mr. Grippe

FINE ARTS 112. Advanced Sculpture

A workshop course exploring traditional and modern styles and techniques. Stress on design and figure composition.

Prerequisite: Consent of the instructor.

Studio fee: \$15. per semester.

Mr. Grippe

FINE ARTS 115. Workshop in Woodcut, Etching and Engraving

Techniques covered include woodcut, line engraving, dry point, lift ground, aquatint, bitten textures, intaglio and surface printing. Printing in black and white and color.

Prerequisite: Open to art concentrators or with consent of the instructor.

Studio fee: \$12.50 per semester.

Mr. Mazur

FINE ARTS 119b. Advanced Workshop with Visiting Artist

Work in either painting, sculpture, or the graphic arts on the advanced level in a small group.

Enrollment only by application to or invitation by the department. *Mr. Smith*

***FINE ARTS 120a. Modern Architecture**

To be given in alternate years.

FINE ARTS 121a. Great Buildings of the Western World

Detailed analysis of a limited number of architectural masterpieces from the fifth century B.C. to the twentieth century. *Mr. Berger*

FINE ARTS 122a. American Architecture and Painting

An historical study of American architecture and painting from the Colonial period to the present. *Mr. Bernstein*

***FINE ARTS 130b. The Art of Ancient Rome**

To be given in alternate years.

FINE ARTS 131a. Minoan and Mycenaean Art

See Classics 104a.

Miss Scoufopoulos

***FINE ARTS 160b. Seventeenth Century Masters**

To be given in alternate years.

FINE ARTS 161b. Eighteenth Century Art

Emphasis on major trends in European architecture, sculpture, and painting in the eighteenth century. *Mr. Berger*

FINE ARTS 171b. The Formation of Modern Style in Painting and Sculpture

European styles in the period before the first World War, with emphasis on major masters of Cubism, Expressionism, Futurism, pre-Dada and abstract art.

Prerequisite: Consent of instructor. Enrollment limited to 10. *Mr. Seitz*

FINE ARTS 180b. Introduction to the Art of India

A historical survey of Indian art.

Mr. Maeda

FINE ARTS 181b. Introduction to the Art of Japan

Emphasis on the history of sculpture and painting.

Mr. Maeda

FINE ARTS 182a. Introduction to the Art of China

A historical survey with emphasis on painting.

Mr. Maeda

FINE ARTS 184a. Seminar in Far Eastern Art

Studies in Chinese painting.

Mr. Maeda

FINE ARTS 190b. Advanced Studies in Medieval Art

A study of selected works or problems by means of seminar discussion. The topic will be announced each year.

Prerequisite: Permission of the instructor required.

Mr. Gaehde

***FINE ARTS 191a. Advanced Studies in the Renaissance**

*Not to be given in 1967-68.

FINE ARTS 192a. Advanced Studies in Modern Art

Mr. Finkelstein

FINE ARTS 193b. Advanced Studies in Greek Art

Miss Loeffler

FINE ARTS "S". Studio Colloquium

Demonstrations by and discussions with visiting artist.

No credit.

Mr. Smith

French Language and Literature

Requirements for Concentration

A. Required of all Concentrators: French 3a, 97c, 106a, and two year courses chosen from French 116aR and bR, 117a and b, 127a and b.

B. Five semester courses from offerings above French 10.

C. One year course from the School of Humanities, except logic and composition.

D. A Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional requirement for candidates for degrees with distinction: French 99.

French 1 and 2 are full year courses and may not be dropped with credit at midyear.

French 10 may be divided with the permission of the Coordinator or the Chairman.

A *Maison Française* has been established on the campus to house a limited number of girls who wish to increase their fluency and to live in a French-speaking environment. Priority for membership in the *Maison Française* will be given to juniors and seniors majoring in French, Romance Literature and Comparative Literature; sophomores who are candidates for the Smith-Sweet Briar Programs of *Junior Year Study in France*; and freshmen with a high rating in French in their entrance examinations who plan to concentrate in French. Interested students should apply to the Chairman of the Department of Romance Languages and Comparative Literature.

FRENCH 1. Introductory French

Staff

FRENCH 2. Intermediate French

Prerequisite: French 1, appropriate placement score, or permission of the instructor.

Staff

FRENCH 3a and 3aR. Intermediate Conversation

Prerequisite: Concentration in French or permission of the instructor.

Mrs. Reisman

FRENCH 5a. Accelerated Second Year French

An *intensive* one-semester course for students whose placement score or performance in French 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Staff

FRENCH 10. Readings in French Literature

Prerequisite: French 2 or 5a, appropriate placement score or permission of instructor. *Staff*

FRENCH 97c. Tutorial

Prerequisite: Permission of the instructor. *Staff*

FRENCH 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department. *Staff*

FRENCH 99. Senior Research

Students who are candidates for degrees with honors in French must register for this course and prepare an honors thesis under faculty direction. *Staff*

FRENCH 100. Introduction to Literary Analysis

This course is especially recommended to qualified freshmen who anticipate a concentration in some area of the School of Humanities.

Prerequisite: An appropriate placement score or permission of the instructor. *Messrs. Hammond and Tarica*

FRENCH 106b. Advanced French Composition

Prerequisite: French 10 or permission of the instructor. *Mr. Maître*

***FRENCH 107b. French Stylistics**

To be given in 1968-69.

FRENCH 112aR. Theory of Language

Historical and comparative linguistics.

Prerequisite: An introductory course in linguistics or permission of the instructor. *Mr. Gribble*

***FRENCH 112b. Theory of Language**

To be given in 1968-69.

FRENCH 116aR. Medieval French Literature

Prerequisite: French 10 or permission of the instructor. *Mr. Diller*

FRENCH 116bR. French Renaissance Literature

Prerequisite: French 10 or permission of the instructor. *Mr. Bonnefoy*

FRENCH 117a. Seventeenth Century Moralists: Satire and Irony

Prerequisite: French 10 or permission of the instructor. *Mr. Bonnefoy*

FRENCH 117b. French Classical Drama

Prerequisite: French 10 or permission of the instructor. *Mr. Matheson*

FRENCH 127a. The Eighteenth Century: Prose Fiction

Prerequisite: French 10 or permission of the instructor. *Miss Pollock*

FRENCH 127b. The Eighteenth Century: The Age of Enlightenment

Prerequisite: French 10 or permission of the instructor. *Mr. Gendzier*

*Not to be given in 1967-68.

- FRENCH 138a. The French Novel in the First Half of the Nineteenth Century
Prerequisite: French 10 or permission of the instructor. *Mr. Hammond*
- FRENCH 138b. The French Novel in the Second Half of the Nineteenth Century
Prerequisite: French 10 or permission of the instructor. *Mr. Sachs*
- *FRENCH 139a. Romantic and Parnassian Poetry
To be given in 1968-69.
- *FRENCH 139b. French Poetry: Baudelaire to Valéry
To be given in 1968-69.
- *FRENCH 140a. The Theater of the Eighteenth and Nineteenth Centuries
To be given in 1968-69.
- *FRENCH 140b. Twentieth Century Theater
To be given in 1968-69.
- FRENCH 149a. Early Twentieth Century French Fiction
Prerequisite: French 10 or permission of the instructor. *Mr. Matheson*
- FRENCH 149b. Contemporary French Fiction
Prerequisite: French 10 or permission of the instructor. *Mr. Tarica*
- *FRENCH 150bR. Contemporary French Poetry
To be given in 1968-69.

General Science

Committee: Associate Professor MORRIS SOODAK, *Chairman and Student Adviser;* Professor RICHARD S. PALAIS; Assistant Professors IRA H. GILBERT, PETER C. JORDAN, GJERDING OLSEN. *Ex-officio:* Professor ERNEST GRUNWALD.

The general science program is designed for students desiring a diversified program in the sciences; for example, for students planning to teach science in secondary schools, to enter medicine or public health and their allied fields, or to undertake other programs requiring a general scientific background. Students who intend to do graduate work in a specific scientific field are advised to fulfill the undergraduate requirements for concentration in that field.

Requirements for Concentration

A. Required of all Candidates: Biology 10; Mathematics 10, 11, or 12; Physics 10 or 11; Chemistry 10a,b or 15a,b.

The candidate must have a minimum grade of C in each of the four courses taken in this group.

B. Elective Courses: With the approval of the faculty advisers for the program, each concentrator in the General Science program must elect, in addition, the equivalent of five year courses from the offerings of the School of Science. These five courses must be selected from at least two and not more than three fields in the School of Science, so that advanced courses will be required of all students in

*Not to be given in 1967-68.

this program. It is strongly recommended that a course in History of Science be elected in addition to the above five courses.

C. Requirements for candidates for degrees with distinction: A student may petition the General Science Committee to devise an honors program which is in accordance with the special background of the individual.

Germanic and Slavic Languages

See page 113.

German Language and Literature

Requirements for Concentration

A. Required of all Concentrators: German 3b, 100aR, 106a, 110a or 110b, 120a, 140a, 160b or 180aR.

B. One year course chosen from the German course offerings above German 10.

C. One year course in a related area chosen with the consent of the adviser.

D. A Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional Requirement for candidates for degrees with distinction: German 99.

German 1 and 2 are full year courses and may not be dropped with credit at midyear.

German 10 may be divided with the permission of the Coordinator or the Chairman.

GERMAN 1. Introductory German

Staff

GERMAN 2. Intermediate German

Prerequisite: German 1, appropriate placement score, or permission of instructor.

Staff

*GERMAN 3b. Composition and Conversation

To be given in 1968-69.

GERMAN 5a. Accelerated Second Year German

An intensive one-semester course for students whose placement score or performance in German 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Staff

GERMAN 5aR. Accelerated Second Year German

Staff

GERMAN 10. Readings in German Literature

Prerequisite: German 2 or 5a, appropriate placement score, or permission of the instructor.

Staff

GERMAN 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

*Not to be given in 1967-68.

Staff

GERMAN 99. Senior Research

Students who are candidates for a degree with honors in German must register for this course and prepare an honors thesis under faculty direction. *Staff*

GERMAN 100aR. Historical Survey of German Literature

Prerequisite: German 10 or permission of the instructor. *Mr. Baumann*

GERMAN 106a. Advanced Exercises in German Composition and Literary Style

Prerequisite: German 3b or permission of the Chairman. *Mr. Baumann*

GERMAN 110a. Introduction to the Life and Works of Goethe

Prerequisite: German 10 or permission of the instructor. *Miss Hourtienne*

GERMAN 110b. Goethe's "Faust"

Prerequisite: German 10 or permission of the instructor. *Miss Hourtienne*

GERMAN 112aR. Theory of Language

Historical and comparative linguistics.

Prerequisite: An introductory course in linguistics or permission of the instructor. *Mr. Gribble*

***GERMAN 112b. Theory of Language**

To be given in 1968-69.

***GERMAN 120a. Enlightenment, Storm and Stress, Idealism; Lessing and Schiller**

To be given in 1968-69.

***GERMAN 130b. German Romanticism**

To be given in 1968-69.

GERMAN 140a. German Literature in the Nineteenth Century

Prerequisite: German 10 or permission of the instructor. *Mr. Zohn*

***GERMAN 150b. The German Novelle from Goethe to Thomas Mann**

To be given in 1968-69.

***GERMAN 160b. German Drama and Lyric Poetry from Naturalism to the Present**

To be given in 1968-69.

GERMAN 180aR. Twentieth Century Prose: Mann, Kafka, Hesse

Prerequisite: German 10 or permission of the instructor. *Mr. Zohn*

Greek

See Classics.

Hebrew**Requirements for Concentration**

For requirements for concentration in Hebrew Literature, see *Near Eastern and Judaic Studies*.

*Not to be given in 1967-68.

HEBREW 1. Introductory Hebrew

Fundamentals of grammar, acquisition of vocabulary, brief compositions and reading of simple texts.

All students will be required to take one hour of laboratory drill and exercise, in addition to the three hours of class, without additional credit.

Open to those students who have not previously had instruction in Hebrew.

Mr. Kutscher

HEBREW 2. Intermediate Hebrew

The structural method will be used, aiming at promoting the student's acquaintance with the necessary tools for an active use of the language.

Prerequisite: Hebrew 1 or its equivalent; consent of instructor required.

Mr. Kutscher

HEBREW H3a. The Hebrew Language (Hiatt Institute in Israel)

Basic grammar; reading of simple texts; composition and conversation with emphasis on the spoken language. *4 credits.*

Staff

HEBREW 10. Introduction to Post-Biblical Hebrew Literature

Excerpts from selected works will be read and analyzed from both the linguistic and the literary points of view.

Prerequisite: Hebrew 2 or its equivalent.

Mr. Brandwein

Also see courses under NEAR EASTERN AND JUDAIC STUDIES.





History

PROFESSOR LEONARD W. LEVY, *Chairman*; President A. L. SACHAR; Professors SAUL BENISON, DAVID S. BERKOWITZ, RUDOLPH BINION, MORTON KELLER, NORMAN CANTOR, OSCAR JANOWSKY, MARVIN MEYERS; Associate Professors EUGENE C. BLACK, DAVID H. FISCHER (*Student Adviser*), HEINZ M. LUBASZ, STEPHAN THERNSTROM, MILTON I. VANGER; Assistant Professors JEROLD S. AUERBACH, KENNETH BARKIN, SAMUEL J. BERNER, MARSHALL S. SHATZ, CHUNG-CHI WEN; MR. HOCK G. TJOA.

Requirements for Concentration

Each student will prepare his plan of study with his faculty adviser and must have that adviser's approval for his courses.

A. Required of all Candidates:

1. Ten semester courses in History.
2. These courses will include:
 - a) Two semesters in United States history.
 - b) Either: i) History 1a-b and one additional semester of European history; or
ii) Two semester courses in European history other than History 1a-b, one of which shall be before 1700 and one after 1700.
 - c) Three semesters of work in proseminars or tutorials.

B. Additional requirement for candidates for degrees with distinction: History 99.

History 98a and b (Readings in History) may be taken by students in the following cases: (a) as preparation for or a supplement to work on the senior honors thesis; (b) on the ground that an area of special interest to the student is not offered in the regular course curriculum. In such cases the student must have the consent of his faculty adviser.

HISTORY 1a. The Development of Western Thought and Institutions

The course will center on the key factors and forces which have shaped the development of Western society from the ancient to the modern world. Major emphasis will be on social, economic, and political ideas embodied in institutional developments. *Mr. Cantor*

HISTORY 1b. The Development of Western Thought and Institutions

Continuation of History 1a.

Mr. Lubasz

HISTORY 51a. History of the United States to 1877

This is an introductory course, but not a traditional narrative survey. Familiar political events will be given little attention. Emphasis will be placed upon the basic intellectual, political, economic and social influences which have shaped American life. *Mr. Thernstrom*

HISTORY 51b. History of the United States since 1877

This is an introductory course, but not a traditional narrative survey. Familiar political events will be given little attention. Emphasis will be placed upon the basic intellectual, political, economic and social influences which have shaped American life. *Mr. Thernstrom*

HISTORY 97a. Tutorial

Readings, reports, and group discussions on historiographical themes. Permission of the instructor is necessary for admission. Among the topics to be offered in the 1967-68 academic year are the following:

Studies in the History of the Puritans

An investigation of the history and historiography of Puritanism, with particular attention to theology, ecclesiology, politics, economics, social theory, and psychology. *Enrollment restricted.* *Mr. Fischer*

Studies in Eighteenth Century America

An investigation of society, politics, religion, economics, and culture in the American Colonies, circa 1760. *Enrollment restricted.* *Mr. Fischer*

Studies in the History of the Early Republic

An investigation of politics, diplomacy, law, economics, religion, social structure, and culture in the United States, 1790-1815. *Enrollment restricted.* *Mr. Fischer*

Studies in the History of Slavery

An investigation of slavery as an economic, social, and cultural institution in the Americas. *Enrollment restricted.* *Mr. Fischer*

Innovation in History

An investigation of recent and contemporary trends in historical writing. *Enrollment restricted.* *Mr. Fischer*

Studies in the History of Childhood

An investigation of ideas and institutions concerning child rearing in America from the colonial period to the present. *Enrollment restricted.* *Mr. Fischer*

HISTORY 97b. Tutorial

Russian Social and Political Thought

Source readings in political and social thought of the eighteenth, nineteenth, and early twentieth centuries. *Enrollment restricted.* Mr. Shatz

History and Literature in the Nineteenth Century

Enrollment restricted. Mr. Barkin

Modern American History

Enrollment restricted. Mr. Auerbach

HISTORY 98a and b. Readings in History

A supervised reading around a specific theme; discussions and preparation of research paper or equivalent.

Open upon invitation of the Department. Staff

HISTORY 99. Senior Research

Seniors who are candidates for degrees with honors in history are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic. Staff

*HISTORY 106a. Greek Political Behavior and Theory

*HISTORY 107b. Studies in the Period of the Roman Decline

HISTORY 111a. History of Greece

(formerly 11a)

The political, social, economic, and cultural history of Greece from the Bronze Age into the Hellenistic period. Mr. Tjoa

HISTORY 112b. History of Rome

(formerly 12b)

The political, social, economic, and cultural history of Rome through the Monarchy, Republic, and Empire. Mr. Tjoa

HISTORY 120a and b. Topics in Medieval History

(Proseminar)

Interpretations of political, social, and intellectual problems in medieval history.

Admission by permission of the instructor only. Mr. Cantor

HISTORY 123a. The Civilization of the Early Middle Ages

The culture and society of Europe, Byzantium, and Islam from 300 to 1050 A.D. Mr. Cantor

HISTORY 123b. The Civilization of the High and Late Middle Ages

European culture and society from 1050 to 1500 A.D. Mr. Cantor

HISTORY 125a. The Early Renaissance

The process of transition from Medieval to Renaissance culture (1250-1450). A study of art, literature, religion, politics, and society in the early Renaissance, with emphasis on Italy. Mr. Berner

*Not to be given in 1967-68.

HISTORY 125b. The High Renaissance

Renaissance culture in its mature development (1450-1650), considered in the content of political and social change with emphasis on Italy and France. *Mr. Berner*

HISTORY 126a. Constitutional History of Medieval England**HISTORY 126b. Constitutional History of Modern England****HISTORY 128a. The Reformation in Sixteenth Century Europe**

The religious upheaval of the Reformation.

Mr. Berkowitz

HISTORY 129a. Topics in the Political and Social History of Western

Europe, 1450-1650

(Proseminar) *Enrollment limited to 15.*

Mr. Berner

HISTORY 129b. The Renaissance and Reformation in Tudor England

Reinvigoration of the dynastic state and new outlook in scholarship and religion under the impact of Renaissance and Reformation current; problem of religious toleration and political theory in the Elizabethan period. *Mr. Berkowitz*

HISTORY 130b. Religion and Revolution in Seventeenth Century England

(Proseminar)

Middle-class and millenarian ideologies and the Stuart establishment; attacks on authoritarian political theories in church and state, nature of law and authority, royal prerogative and parliamentary sovereignty, liberties of the subject, and the problem of religious toleration.

Mr. Berkowitz

HISTORY 131b. The Beginnings of Capitalism*HISTORY 132b. The Old Regime, 1600-1715**

Political and social history of continental Europe during the age of dynastic monarchies.

Mr. Berner

HISTORY 133. Intellectual History of Modern Europe

A survey of the main currents of European thought, from the Enlightenment to the recent past, with particular attention to select problems in social and political thought.

Open only to juniors and seniors.

Mr. Lubasz

HISTORY 134a. History of Europe, 1789-1848

European history from the French Revolution to the mid-nineteenth century. The changes which followed the Revolution and their different national forms are stressed.

Mr. Barkin

HISTORY 134b. History of Europe, 1848-1914

European history from 1848 to the First World War. The growth of nationalism, imperialism, and the alliance system are given special attention. The emergence of a world economy and its political effects also are stressed.

Mr. Barkin

***HISTORY 135a. Ideologies of Capitalism**

A survey of various informal ideologies of capitalism from the Protestant Ethic to the American Dream. Attention will be paid to (1) the historical genesis

*Not to be given in 1967-68.

and role of informal ideologies, specifically of capitalism; (2) their place in the socio-political and the cultural matrix; and (3) the impact of the capitalist imagination on society and culture generally. Comparison will be made throughout between the social and cultural situations of capitalism in western Europe and in the United States respectively.

HISTORY 135b. The Growth of Modern Industrial Society

(Proseminar)

The industrial revolution in Europe with emphasis upon Great Britain, Germany, and France. Problems in technological and entrepreneurial history, the social implications of economic change and the intellectual and institutional impact of these developments.

Mr. Black

*HISTORY 136a. The Twentieth Century

(formerly 36a)

*HISTORY 136b. The Twentieth Century

(formerly 36b)

HISTORY 137a. European Thought and Culture, 1890-1914

(Proseminar)

Intellectual, artistic, and cultural developments in Europe during the quarter century before the First World War.

Mr. Binion

HISTORY 137b. European Diplomatic History, 1919-1939

(Proseminar)

The relations among the European states between World War I and World War II.

Mr. Binion

HISTORY 141b. History of Spain

Spanish history from the Reconquest to the present; imperial greatness and decline; Bourbons and the Spanish Enlightenment, Romanticism, and Liberalism; the Second Republic; the Civil War; the Franco Era.

Mr. Vanger

HISTORY 142a. The Third French Republic

(Proseminar)

Politics in France between the Franco-Prussian War and the Second World War.

Mr. Binion

HISTORY 143a. History of Russia to 1861

The formation and decline of the Kievan state; the rise of Muscovy and the growth of the autocracy; Imperial Russia from the reforms of Peter the Great to the emancipation of the serfs.

Mr. Shatz

HISTORY 143b. History of Russia since 1861 to the Present

Modernization and revolution in post-emancipation Russia. Political and economic changes in the last decades of the Empire, and the rise of the revolutionary movement; the Revolution and its aftermath; the development of the Soviet state.

Mr. Shatz

HISTORY 144a. Modern Britain, 1760-1867

Social, economic, cultural and political history of Britain from the reign of George III to the mid-Victorian era.

Mr. Black

*Not to be given in 1967-68.

HISTORY 144b. Modern Britain, 1867 to the Present

Social, economic, cultural, and political history of Britain from the Second Reform Act to the evolution of the welfare state. *Mr. Black*

HISTORY 145a. History of Germany, 1848-1945

The economic, political, and diplomatic history of Germany, including Austria-Hungary, from the revolutions of 1848 to the collapse of National Socialism in 1945. *Mr. Barkin*

HISTORY 145b. The Weimar Republic

(Proseminar)

This seminar will be concerned with the German domestic scene between the end of World War I and the assumption of office by Hitler. *Mr. Barkin*

HISTORY 146a. Modern Imperialism

The course seeks to clarify the meaning, causes, process and effects of Imperialism. Case studies are made of empire-building during the nineteenth and twentieth centuries to verify ideological hypotheses. *Mr. Janowsky*

HISTORY 146b. The Idea of Imperialism

(Proseminar)

The evolution of Imperialism as concept and historical force. Structured theories (Lenin, Schumpeter, etc.) are studied critically. The conceptions of apologists and empire-builders (Seeley, Chamberlain, Cramer, Ferry, Fabri, etc.) are reconstructed by analysis of justification, motivation, and relation to interest groups. *Mr. Janowsky*

HISTORY 147b. The Development of the Russian Intelligentsia

(Proseminar)

The formation of the Russian intelligentsia and its place in Russian society, from its origins in the eighteenth century nobility to the Soviet period. *Mr. Shatz*

HISTORY 148b. Modern Europe: A Biographic Approach

(Proseminar)

An investigation of how history relates to the individual lives that compose it: studies of selected modern Europeans. *Mr. Binion*

HISTORY 150a. The Age of the Democratic Revolution, 1760-1830

(Proseminar)

An intensive examination of the elements and dynamics of change in politics, society, economics and culture in Europe and America focussing upon France.

Prerequisites: 1. One semester course in European history of this period.

2. A reading knowledge of French.

Mr. Black

HISTORY 151a. The New American Republic*HISTORY 152a. The Founding of the American Republic, 1776-1800**

An examination of the process of creating new American regimes, state and national, during and after the Revolution. Ideas, movements, and institutions will be considered. *Mr. Meyers*

*Not to be given in 1967-68.

HISTORY 152b. Jacksonian Democracy

(Proseminar)

An examination of the interpretations of democratic society and politics in the Jacksonian era, from Tocqueville to the present. *Mr. Meyers*

*HISTORY 153b. Civil War and Reconstruction

HISTORY 154a. Modern America

The United States since 1914, with emphasis on intellectual and social trends and foreign relations.

Prerequisite: History 51b, History 164b, or permission of the instructor.

Mr. Auerbach

HISTORY 154b. The United States between the World Wars

(Proseminar)

A comparative analysis of selected aspects of American society during the twenties and thirties. *Mr. Auerbach*

*HISTORY 155a. Civil Liberties in America

*HISTORY 157. American Industrial Growth

HISTORY 158b. Social History of the American Legal Profession

(Proseminar)

The legal profession since the American Revolution, emphasizing concepts of professionalization, the interaction between law and society, and the involvement of lawyers in American public life. *Mr. Auerbach*

*HISTORY 160b. American Education

HISTORY 161a. Social History of American Science

(Proseminar)

An examination of the role of science in America during the nineteenth and early twentieth centuries. *Mr. Benison*

HISTORY 163b. American Intellectual History, 1880-1865

(Proseminar)

The history of ideas in America from the seventeenth century to 1865. The course traces the evolution of major traditions through the writings of significant figures and in relationship to significant historical events. *Mr. Meyers*

*HISTORY 164a. History of American Political Institutions

*HISTORY 164b. History of American Political Institutions

HISTORY 165b. The Social History of Modern America

An analysis of the transformation of American life wrought by urbanization and industrialization. Discussion of key texts, including fiction.

Enrollment restricted to 15.

Mr. Thernstrom

*Not to be given in 1967-68.

HISTORY 166a. History of American Constitutional Law and Theory

(formerly 156a)

The history of the Constitution and its interpretation by the Supreme Court against the background of political and economic change from the foundations of the Republic to the Civil War. Origins and development of American constitutional thought and institutions, with stress on problems of judicial review and the role of the judiciary in defining the powers and limitations of government. *Mr. Levy*

HISTORY 166b. History of American Constitutional Law and Theory

(formerly 156b)

The development of American constitutional law and theory since the Civil War with the emphasis on the adaptation of the Constitution to the changing needs of American society. *Mr. Levy*

HISTORY 171a. Latin American History—Discovery to 1890

(formerly 71a)

Conquest and Empire in Spanish America and Brazil. Wars of Independence; period of national formation concentrating on Mexico, Argentina, and Brazil. This course is recommended as the introductory course in Latin American history and to the student who intends to take only one Latin American history course.

Open to upperclassmen.

Mr. Vanger

HISTORY 171b. Latin American History—1890 to Present

(formerly 71b)

The emergence of mass politics; revolutionary and reform movements; economic developments. *Mr. Vanger*

HISTORY 176a. Approaches to Latin American History

(Proseminar)

Readings, discussions, oral and written reports on problems central to understanding Latin American history.

Prerequisite: Permission of instructor required.

Mr. Vanger

HISTORY 176b. Latin America in the World, 1810 to Present*HISTORY 180a. History of the Far East to the Fourteenth Century**

A survey of social, economic, political, and cultural developments in China and Japan. *Mr. Wen*

HISTORY 180b. History of the Far East from the Fourteenth to the Nineteenth Century

A survey of social, economic, political, and cultural developments in China and Japan. *Mr. Wen*

HISTORY 181a. China in the Nineteenth and Twentieth Centuries

A detailed study of China's internal developments, foreign relations, and the impact of the West. *Mr. Wen*

HISTORY 181b. Topics in Sino-Western Relations

(Proseminar)

A topical treatment of cultural contacts and diplomatic relations in the nineteenth and twentieth centuries, requiring some research with the use of original sources. *Mr. Wen*

*Not to be given in 1967-68.

HISTORY 185a. A History of Sub-Sahara Africa

An examination of African origins, colonialism, and the emergence of national states.

This course is divisible with the consent of the instructor.

See Anthropology 168a.

Mr. Duffy

HISTORY 190a. History of Historical Literature and Historical Method

(Proseminar)

Factors and influences in the development of historical investigation from antiquity to the nineteenth century and the conceptions of historical method; contemporary modes of historical expression.

Mr. Berkowitz

Humanities**HUMANITIES 1. Classics of the Western Tradition through the Renaissance**

The major texts of the Western literary tradition with discussion of ideas and values, and training in the various methods of literary interpretation and analysis. The readings will include Homer, Greek tragedy, Plato, the Old and New Testaments, Virgil, Dante, Chaucer, Cervantes and Shakespeare.

Staff

HUMANITIES 2. Classics of the Western Tradition from the Renaissance to the Present

The major cultural movements in Western civilization since the Renaissance, with emphasis on the literary masterpieces. Among the authors studied are Shakespeare, Milton, Moliere, Swift, Voltaire, Rousseau, Goethe, Stendhal, Flaubert, Dostoevski, Ibsen, and Joyce.

Staff

HUMANITIES 3. Classics of English Literature

A study of the nature of the English literary tradition and its principal masterpieces.

Mr. Leitchuk

HUMANITIES 4. Classics of American Literature

A study of major literary works by American authors with emphasis on traditional themes and techniques.

Mr. Bercovitch

HUMANITIES 5. The Mind of Greece and Rome

An intensive study of the major Greek and Latin writers, considered against a broad cultural background.

See Classics 5.

Staff

***HUMANITIES 6. Literature of the Bible**

To be given in 1968-69.

HUMANITIES 7. Literature of the Romance Tradition*HUMANITIES 12a,b. Value and Nature**

First semester: The cosmological view of man's place in nature from the Greeks to the nineteenth century.

Mr. Toulmin

*Not to be given in 1967-68.

Second semester: Some major problems of value and ethics in the Western philosophic tradition; *e.g.*, ethical relativism, freedom of the will, capital punishment.

Mr. Diamandopoulos

See Philosophy 12a, b.

HUMANITIES 14a. Introduction to the Bible

Major themes of Biblical writing, considered against a background of history and religious thought. Selected portions of the Bible in English translation will be studied: the Pentateuch; the historical books; the Prophets (Amos through Jeremiah).

See NEJS 14a.

Mr. Glatzer

HUMANITIES 14b. Introduction to the Bible

Continuation of Humanities 14a. The Prophets (Ezekiel, Second Isaiah, Jonah); The Writings—New Testament background of Early Christianity.

See NEJS 14b.

Mr. Glatzer

A student may not take both Humanities 6 and Humanities 14 in fulfillment of General Education requirements.

HUMANITIES 61b. The Modern Novel

A study of some of the masterpieces of European fiction (in translation) from 1850.

Mr. Hindus

Italian Language and Literature

ITALIAN 1. Introductory Italian

Italian 1 is a full year course and may not be dropped with credit at midyear.

Mr. Truscott

ITALIAN 3aR. Conversation and Composition

Prerequisite: Italian 1 or permission of the instructor.

Mr. Truscott

ITALIAN 5a. Accelerated Second Year Italian

An intensive one-semester course for students whose placement score or performance in Italian 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Mr. Truscott

ITALIAN 10aR and bR. One Semester: Readings in Italian Literature; One Semester: Dante

Prerequisite: Italian 5a, appropriate placement score, or permission of the instructor.

Mr. Truscott

ITALIAN 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Mr. Truscott

Latin

See Classics.

Latin American Studies

Associate Professor DAVID KAPLAN, *Chairman*; Professors JAMES E. DUFFY, DENAH L. LIDA (*Student Adviser for Spanish*); Associate Professors GEORGE L. COWGILL, DONALD HINDLEY, MILTON I. VANGER, RICHARD S. WECKSTEIN; Assistant Professors ANDRÉE M. COLLARD, BENSON SALER, LUIS E. YGLESIAS.

Requirements for Concentration

A. Latin American Studies 97c; Anthropology 143a; History 171a and 171b; Spanish 106b; Politics 166a and b.

B. At least one year course from: Anthropology 11a; Economics 75a; History 141b and 176a; Spanish 160a or 160b. Economics 75a is required for concentrators with specialization in Anthropology, History, Politics.

C. At least two year courses in one discipline: Anthropology, History, Spanish, Politics.

D. Senior Honors: Candidates for degrees with distinction must be approved by the Committee and complete Latin American Studies 99.

LATIN AMERICAN STUDIES 97c. Seminar in Latin American Studies

An interdisciplinary seminar which will bring to bear upon a given problem in Latin American Studies the techniques, methods, and theories of a number of disciplines.

Open to juniors and seniors. To be given in alternate years.

Staff

LATIN AMERICAN STUDIES 98a,b. Independent Study

Readings and reports under faculty supervision. May be taken only with the permission of the Chairman.

Staff

LATIN AMERICAN STUDIES 99. Senior Research

Students who are candidates for degrees with distinction must register for this course and prepare an honors thesis under faculty direction.

Staff

ANTHROPOLOGY 11a. Anthropology and the Problems of Developing Areas

Mr. Weingrod

ANTHROPOLOGY 124b. Pre-Hispanic Civilizations of the New World

Mr. Cowgill

ECONOMICS 75a. The Economics of Underdeveloped Countries

Mr. Weckstein

HISTORY 141b. History of Spain: Reconquest to Present

Mr. Vanger

HISTORY 171a. Latin American History to 1890

Mr. Vanger

HISTORY 171b. Latin American History, 1890 to Present

Mr. Vanger

HISTORY 176a. Approaches to Latin American History

Mr. Vanger

*POLITICS 166a. The Politics of Northern Latin America

*POLITICS 166b. The Politics of Southern Latin America

*SPANISH 106b. Studies in Advanced Spanish Conversation and Composition

*SPANISH 160a. Latin American Literature: The Revolution

*SPANISH 160b. Latin American Literature: Major Trends

*Not to be given in 1967-68.

Linguistics Program

Coordinator: Assistant Professor SAMUEL JAY KEYSER.

The undergraduate program in linguistics is designed to give students a foundation in the study of language. It will enable the student to coordinate an integrated program in linguistics with his chosen area of concentration. Successful completion of the program will be indicated on the student's record.

Requirements for the program:

A. Required of all Candidates: The semester courses listed in Group I below and two of the three semester courses listed in Group II below. These four semester courses comprise the core program. English 191a normally must be taken first.

B. Also required: at least two semester courses listed in Group III below. Selection from this group is subject to the approval of the relevant departments.

Group I

ENGLISH 191a. Introduction to Linguistics

EUROPEAN LANGUAGES 112aR. Theory of Language—Historical and Comparative Linguistics

Based upon selected materials drawn mainly from the Indo-European family of languages. The fundamental assumptions and the methodology of comparative linguistics and linguistic reconstruction will be considered. Special emphasis will be placed on internal reconstruction, using evidence drawn from individual languages.

Group II

ANTHROPOLOGY 102a. Anthropological Linguistics I

ENGLISH 194b. Typology of Languages

ENGLISH 195a. Philosophy of Grammar

Group III

ANTHROPOLOGY 102b. Anthropological Linguistics II

*ANTHROPOLOGY 161b. Culture and Cognition

ENGLISH 192a. Linguistics and Literature

ENGLISH 192b. History of the English Language

ENGLISH 193b. Advanced Problems in Phonology

ENGLISH 194a. English Syntax

ENGLISH 195b. Advanced Problems in Syntax

EUROPEAN LANGUAGES 112bR. Theory of Language—Historical and Comparative Linguistics

NEJS 104c. Aramaic Dialectology

*Not to be given in 1967-68.

- PHILOSOPHY 115a. Intermediate Logic
 PHILOSOPHY 121b. Foundations of Mathematics
 *PHILOSOPHY 131a. Theory of Symbols
 PHILOSOPHY 157a. Philosophy of Language
 PSYCHOLOGY 144b. Psychology of Language
 RUSSIAN 97c. Tutorial
 *RUSSIAN 161b. The Structure of Modern Literary Russian

The following are graduate courses and may be taken only with special permission of the appropriate department. For course descriptions see the Graduate School catalog.

- MEDITERRANEAN STUDIES 271. Comparative Grammar of the Semitic Languages
 MEDITERRANEAN STUDIES 345. Egyptian Seminar
 NEJS 225b. North-West Semitic Inscriptions

Mathematics

Professor RICHARD S. PALAIS, *Chairman*; Professors MAURICE AUSLANDER, EDGAR H. BROWN, JR., DAVID A. BUCHSBAUM, JOSEPH J. KOHN, TERUHISA MATSUSAKA, HUGO ROSSI, ROBERT SEELEY; Associate Professors HAROLD LEVINE, JEROME LEVINE, ALAN MAYER, HIDEYUKI MATSUMURA; Assistant Professors PAUL MONSKY, THOMAS SHERMAN, RAYMOND O. WELLS, JR.; Drs. ALDRIDGE BOUSFIELD, WILLIAM FULTON, RICARDO NIRENBERG, JOHN POLKING, MICHAEL I. SHUB, PHILIP WAGREICH (*Undergraduate Student Adviser*).

Requirements for Concentration

To be accepted for concentration in Mathematics a student must have his program for his junior and senior years approved by the Mathematics Department by the end of his sophomore year. No student with a grade of less than C in Mathematics 21 or 22 may concentrate in Mathematics.

The requirements for concentration in Mathematics are: Mathematics 21a,b or 22, and six semesters of mathematics courses beyond these which must include Mathematics 30. Mathematics 33 may be taken in place of Mathematics 30 however. In addition, a concentrator must take one year of physics and one year of courses in the School of Science (which may be in mathematics).

For a degree with distinction, two additional semesters of mathematics courses are required, and the entire program must include at least one full year course beyond Mathematics 30.

A normal program for a freshman intending to concentrate in Mathematics should include mathematics and physics; either the Humanities or Social Science General Education requirement may be postponed to the sophomore year.

These requirements apply to the class of 1969 and succeeding classes. The former *Requirements for Concentration* apply to the classes of 1967 and 1968.

*Not to be given in 1967-68.

Information for Freshmen

The Department will recommend a particular mathematics course for each entering student; the recommendation is based upon an estimate of the student's ability and preparation.

Beginning with the year 1967-68 all mathematics courses numbered 30 or higher will presuppose a knowledge of linear algebra.

Concentrators will have covered this material in Mathematics 21a. Non-concentrators desiring to take upper level mathematics courses should satisfy this prerequisite by taking either Mathematics 21a (fall term) or Mathematics 20b (spring term); Mathematics 20b is also designed for students who wish to learn linear algebra without necessarily taking any other mathematics courses.

Mathematics 10, 11 and 12 will have an optional fourth class hour each week devoted to the mechanical aspects of the subject. Students are strongly advised to attend.

Primarily for Undergraduates

MATHEMATICS 1a and b. Elements of Mathematics

Selected topics for students who do not plan to major in the sciences. The purpose of the course is to introduce the student to some of the pleasures and hardships encountered in mathematics. *Mr. Brown*

MATHEMATICS 10. The Calculus I

An introduction to the basic concepts and techniques of calculus. *Mr. Seeley*

MATHEMATICS 11. The Calculus I

A more thorough and more theoretical treatment of calculus than is provided by Mathematics 10. *Mr. Polking*

MATHEMATICS 12. Introduction to Analysis I

A rigorous and theoretical introduction to the three fundamental branches of modern mathematics—algebra, analysis, and topology. Mathematics 12 and 22 will include the content of Mathematics 11 and 21 and will, in addition, introduce important aspects of modern mathematics not usually covered in the calculus sequence. Mathematics 12 can be expected to demand considerably more ability and effort than Mathematics 11. *Mr. Wagreich*

MATHEMATICS 20a. The Calculus II

Continuation of Mathematics 10. Further topics in calculus of one variable; introduction to calculus of several variables.

Prerequisite: Mathematics 10, 11, or 12.

Mr. Nirenberg

MATHEMATICS 20b. Linear Algebra

Linear algebra for real and complex vector spaces. Mathematics 20b may not be taken for credit in addition to Mathematics 21a. No prerequisites. *Mr. Nirenberg*

MATHEMATICS 21a. Linear Algebra and Linear Differential Equations

Continuation of Mathematics 11. Linear algebra for real and complex vector spaces, with applications to linear differential equations.

Prerequisite: Mathematics 11 or 12. Students who wish to take this course and who have not taken Mathematics 11 or 12 must pass an examination which will be given at the beginning of the fall term. *Mr. Mayer*

MATHEMATICS 21b. The Calculus II

Calculus of several variables, using linear algebra.

Prerequisite: Mathematics 21a.

Mr. Mayer

MATHEMATICS 22. Introduction to Analysis II

Continuation of Mathematics 12.

Prerequisite: Mathematics 12 or consent of instructor.

Messrs. J. Levine and H. Levine

MATHEMATICS 30a. Modern Algebra

An introduction to groups and commutative algebra. Topics covered will include quadratic forms and orthogonal transformations, Jordan canonical form (via principal ideal domains), the fundamental theorem of abelian groups, and the Sylow theorems.

Prerequisite: Mathematics 21 or consent of instructor.

Mr. Buchsbaum

MATHEMATICS 31b. Introduction to Differential Geometry*MATHEMATICS 32a. Introduction to Topology**

Elements of point set topology, metric spaces and elementary combinatorial topology of graphs and surfaces.

Mr. H. Levine

MATHEMATICS 32b. Projective Geometry*MATHEMATICS 33a and b. Selected Topics in Algebra**

An introduction to algebra in the van der Waerden spirit. Topics covered will include Galois theory, semi-simple rings and integrality. If time permits the arithmetic of number fields will be considered.

Prerequisite: Mathematics 22 or 30.

Mr. Monsky

MATHEMATICS 34a and b. Elementary Topology*MATHEMATICS 35a and b. Advanced Calculus**

Uniform convergence of series of functions, power series, Fourier series, metric topology, vector fields, line integrals, Green's theorem, harmonic functions and potentials, planar geometry, curves and surfaces in $\mathbb{R}^n$.

Mr. Rossi

MATHEMATICS 36a. Probability

Discrete and elementary continuous random variables, combinatorial analysis, approximations (Stirling's formula, normal approximations, etc.), Ruin problems and the arc sine law. Elementary stochastic processes.

Mr. Sherman

MATHEMATICS 37b. Differential Equations

Ordinary differential equations. General nature of solutions, solutions of special classical equations, Picard existence and uniqueness theorem, linear systems, eigen-value problems.

Prerequisite: Mathematics 30 or 35.

Mr. Shub

***MATHEMATICS 38b. Elementary Number Theory**

*Not to be given in 1967-68.

MATHEMATICS 40a. Real Analysis and Metric Spaces

Metric spaces; compactness, connectedness and uniform convergence. Banach and Hilbert spaces.

Prerequisite: Mathematics 21 and 30 (30 may be taken concurrently).

Mr. Kohn

MATHEMATICS 42. Introduction to Algebraic Geometry

An introduction to the geometry of affine and projective spaces with emphasis on the study of algebraic curves. Most of the necessary algebraic preliminaries will be developed in the course. However a familiarity with the notions of rings, fields, domains, polynomials and vector spaces will be assumed.

Prerequisite: Mathematics 22 or 30.

Mr. Fulton

MATHEMATICS 45a. Special Topics in Analysis*MATHEMATICS 45b. Complex Analysis**

Topics covered will include Cauchy's theorem, power series and integral representations of analytic functions, applications of these representations, the Cauchy-Riemann equations, Laplace's equation, harmonic functions and Fourier series, conformal mapping and analytic continuation.

Prerequisite: Mathematics 40a.

Mr. Auslander

MATHEMATICS 99. Senior Research

Staff

*Not to be given in 1967-68.

Goldsmith Mathematics Center



For Undergraduate and Graduate Students

All undergraduates who plan to take a graduate course in mathematics must arrange for an interview during registration week and must obtain written departmental approval at that time.

MATHEMATICS 101a and b. Algebra I

Groups, rings, fields, Galois theory, representations and modules. *Mr. Monsky*

MATHEMATICS 111a and b. Analysis I

Metric spaces, Frechet differentiability, fundamental existence theorems, complex variables and Lebesgue integration. *Mr. Palais*

MATHEMATICS 121a and b. Point Set Topology

Set theory, topological spaces, function spaces and covering spaces. *Mr. Bousfield*

See Graduate School catalog for courses numbered 200 and above.

Mediterranean Studies

Professor CYRUS H. GORDON, *Chairman*; Associate Professors SILVESTRO FIORE, PHILIP C. HAMMOND (*Student Adviser*); Assistant Professors HARRY A. HOFFNER, GORDON D. NEWBY.

Requirements for Concentration

A. Required of all Candidates: Four full year courses within the department as approved by the student adviser.

B. Candidates for distinction must pass (1) three years of one Mediterranean language, or two years of two Mediterranean languages in this or other departments with the approval of the student adviser; (2) not less than two years of history and/or archeology in the department; and (3) write an honors paper in the senior year (under Mediterranean Studies 99).

MS 12. Archeology of Syria-Palestine

The excavations in Syria-Palestine and the interpretation of the architecture and monuments found in them. This course will be conducted in a way to prepare students for field work.

No prerequisites.

Mr. Hammond

MS 99. Senior Honors Research

Concentrators will be guided by their major professor in writing their honors paper. *Staff*

MS 100a. The Mediterranean in Antiquity

An orientation course covering the major historical developments that contributed to Western culture from the dawn of writing (*ca.* 3000 B.C.) to the appearance of Islam (7th Century A.D.). The lectures will be supplemented by readings in ancient and modern historians. *Mr. Newby*

MS 100b. The Mediterranean in the Middle Ages

The main developments from the Islamic Conquest to the Renaissance, stressing the interplay of European and Afro-Asiatic forces in the formation of the modern West. The lectures will be supplemented by readings in medieval and modern historians. *Mr. Newby*

MS 104. History of the East Mediterranean from Alexander to Mohammed*MS 105a. History of the Nabateans and Palmyrenes**

The political and cultural history of the caravan city states in the light of archeology, native inscriptions, and classical sources. *Mr. Hammond*

MS 107. History and Sources of the Crusades**MS 113a. Archeology of Egypt*****MS 114b. Archeology of Mesopotamia****MS 116a. Archeology of the Prehistoric Mediterranean**

A study of the area in Paleolithic and Neolithic times (down to 3000 B.C.) based on exploration, excavation, architecture, art and artifacts. *Mr. Hammond*

MS 117b. Crusader Archeology

The inland and coastal fortifications of the Crusaders, and their other material remains in the East Mediterranean, against the background of their military, political, and institutional history. *Mr. Hammond*

MS 122a. Prophetic Books of the Bible*MS 128. Biblical Texts Pertaining to the United Monarchy**

This course trains the student to control the Hebrew text linguistically and to use it for reconstructing the Mediterranean synthesis. *Mr. Gordon*

MS 130. Elementary Akkadian

A study of Ungnad's Grammar and readings of selected texts in cuneiform.

Mr. Hoffner

MS 136. Hittite

Grammar and interpretation of legal and ritual texts.

Prerequisite: The student must have passed or be taking MS 130. *Mr. Hoffner*

MS 138a. Elementary Ugaritic

Grammar and poetic texts. C. H. Gordon's *Ugaritic Textbook*, 1965, will be used.

Prerequisite: A knowledge of biblical Hebrew.

Mr. Gordon

MS 138b. Advanced Ugaritic

Interpretation of epistles, rituals, and administrative texts in C. H. Gordon's *Ugaritic Textbook*, 1965.

Prerequisite: MS 138a.

Mr. Gordon

*Not to be given in 1967-68.



MS 140. Elementary Middle Egyptian

Gardiner's *Egyptian Grammar* supplemented with reading simple narratives such as *The Shipwrecked Sailor*. Mr. Hoffner

*MS 150a. Homeric Epic

*MS 151b. Hesiod

*MS 153b. Mycenaean Greek Tablets in Linear B

*MS 160a. The Aeneid

*MS 161b. The Poenulus of Plautus

*MS 162a. The Vulgate

Music

Professor HAROLD SHAPERO, *Chairman*; Professors ARTHUR BERGER, SEYMOUR SHIFRIN; Associate Professors PAUL BRAINARD, MARTIN BOYKAN, ROBERT KOFF, CALDWELL TITCOMB (*Student Adviser*); LEO TREITLER; Assistant Professor CATHERINE W. CHAPMAN; MR. LOUIS S. BAGGER, MR. EDWARD COHEN, MISS MADELINE FOLEY, MR. EUGENE LEHNER, MR. ALVIN LUCIER, MR. GEORGE ZILZER.

The program of concentration aims to provide an awareness of the systematic basis of music and its history, skill in the use of theoretical and compositional tools, and a close acquaintance with representative musical literature.

*Not to be given in 1967-68.

Before admission to concentration, candidates will normally pass Music 61 during their freshman year, with a satisfactory grade, and must undergo an examination to test keyboard competence, sight reading at the piano, and aural perception. Instruction under the Basic Piano program is offered during the sophomore and junior years for those who are deficient at the keyboard. The required proficiency must normally be demonstrated by the end of the junior year. No fee is charged for this instruction and no credit is granted.

Requirements for Concentration

A. Required of all Candidates: Music 61, 97a or 97b, 102, 103, 162, 163, 165a.

All concentrators in Music are also expected to participate regularly in the Chorus or Ensemble Workshop, and in the non-credit Music Colloquium. Not more than a total of 6 credits in Music C and E will be counted toward the A.B. degree. Consult Music C and E below for the conditions under which degree credit is granted for these activities.

B. Elective Courses: Select from the music courses (including Music C and E but excluding Music 1 and 5) a sufficient number to fill out the requirement of seven year courses. With the permission of the Music faculty, any other year course in Creative Arts may be substituted.

C. All concentrators must pass a four-hour departmental Comprehensive Examination near the end of their senior year.

D. Additional Requirement for candidates for degrees with distinction: To be eligible for honors in music at graduation candidates must demonstrate superior ability through their over-all record, and a capacity for independent thought beyond the limits of their course program.

Primarily for Undergraduates

MUSIC 1. Introduction to Music

A general introduction to the materials and forms of music, and a study of musical literature from ancient times to the present.

Two lectures and one section meeting weekly, with training in analytical listening, based on selected listening assignments.

A year course, not divisible.

Open to non-concentrators. It is assumed that the student has no previous knowledge of music.

Mr. Treitler

*MUSIC 5a. Fundamentals of Music

MUSIC 5b. Fundamentals of Music

Elementary theory for the general student with little or no musical background; notation; scales, melody construction; elementary concepts of theory.

Open to non-concentrators.

Mr. Lucier

*MUSIC 33a and b. Renaissance and Baroque Keyboard Music

MUSIC 34a. The Literature of Chamber Music: Baroque and Classical

Prerequisite: Music 1 or permission of the instructor. *Given in alternate years.*

*Not to be given in 1967-68.

Mr. Koff

MUSIC 35b. The Literature of Chamber Music: Romantic and Modern*Prerequisite:* Music 1 or permission of the instructor.*Mr. Koff****MUSIC 37a. The Symphony*****MUSIC 38b. The Opera*****MUSIC 42a. Bach and Handel****MUSIC 44a. Mozart and Haydn**

A study of the classical Viennese masters, their lives and works.

Prerequisite: Music 1 or permission of the instructor.*Mr. Bagger***MUSIC 45b. Beethoven**

A study of the man, his life and works.

Prerequisite: Music 1 or permission of the instructor.*Mr. Bagger****MUSIC 47b. Wagner and Verdi*****MUSIC 49b. Contemporary Music****MUSIC 61. Theory I**

Elementary harmony and counterpoint. The tonal system; scales, intervals, triads, seventh chords. Strict counterpoint in five species.

Before admission to the course, students must pass a preliminary ear test and will be expected to demonstrate minimal ability to read music.

Three class meetings, and a two-hour laboratory session (keyboard harmony, harmonic and contrapuntal analysis).

Students intending to concentrate in Music should pass this course with a satisfactory grade in the freshman year unless they have an equivalent preparation. In no case may a student take the course later than the sophomore year. *Mr. Cohen***MUSIC 97a. Tutorial in Music History and Literature**Guided reading and research in the history and literature of music. *Mr. Cohen***MUSIC 97b. Tutorial in Musical Analysis**

Introduction to basic analytical methods.

*Mr. Cohen**One of the above tutorial half courses is required of senior concentrators in Music though both may be elected. Both courses are open without credit to graduate students.***MUSIC 98a,b. Readings in Music History and Theory***Open to qualified undergraduates.**Staff***MUSIC 99c. Senior Research**Independent study under faculty supervision. A student whose grade point average in music is 3.0 or above may petition at the end of his junior year for permission to enter this course.*Staff***Not to be given in 1967-68.*

MUSIC 102. Historical Analysis of Music to 1750

Studies in the development of musical idioms and forms, and of the relation of music to society. Detailed analysis of representative works, collateral reading, papers on assigned topics.

Prerequisite: Music 61 and an intermediate theory course. To be taken in the junior or senior year.

To be given in alternate years.

Mr. Titcomb

***MUSIC 103. Historical Analysis of Music from 1750 to the Present**

To be given in alternate years.

MUSIC 104a. Twentieth Century Music*MUSIC 134c. Studies in the Analysis and Performance of Chamber Music**

A discussion of advanced problems in performance and interpretation. Written work will include papers on selected topics.

Two hours a week, with the Ensemble as a required laboratory session for which no additional credit is given.

Prerequisite: Advanced instrumental proficiency and permission of the instructor.

Mr. Koff, Mr. Bagger, Miss Foley

MUSIC 162. Theory II

Intermediate harmony and counterpoint. Secondary sevenths, ninths, altered chords. Tonal counterpoint.

Laboratory two hours per week: keyboard harmony, harmonic and contrapuntal analysis.

Mr. Bagger

MUSIC 163. Theory III

Advanced harmony and counterpoint. Chromatic harmony. Modal counterpoint. Introduction to twentieth century materials.

Laboratory two hours per week: keyboard harmony, harmonic and contrapuntal analysis.

Mr. Boykan

MUSIC B. Basic Piano

Instruction for concentrators deficient at the keyboard.

No fee. No credit.

Mr. Zilzer

MUSIC C. Chorus

The Brandeis Choral Union consists of the Brandeis Chorus, open to all qualified students, faculty and staff; and the Brandeis Chamber Chorus, a smaller group of more advanced singers devoted to performance of contemporary music and works especially prepared for the Collegium Musicum.

Two credits per annum. No credit is given for one semester's participation, nor is credit given for two separate semesters in different years. Maximum credit is six semester hours. This course may not be counted in computing the student's total work load. An excessive number of unexcused absences will disqualify students from receiving credit. Chorus may be taken as an extra-curricular activity without credit.

Three hours each week.

Mr. Lucier

*Not to be given in 1967-68.

MUSIC E. Ensemble and Chamber Orchestra

Two credits per annum. Open to qualified instrumentalists interested in chamber music performance. Although this is an independent activity it also serves as a laboratory for Music 134c. Maximum credit, six semester hours. No credit is given for anything less than one continuous year's activity. Members of this group will join with the Chorus from time to time in the performance of larger scale works.

Requirements for admission: An audition before the supervisor of performing activities and his staff.

Mr. Koff and Staff

MUSIC M. Advanced Instrumental and Vocal Instruction

For Music concentrators only.

Private study with teachers approved by the department. Limited grants in aid, when available, will be allocated on a competitive basis to concentrators who, in an audition before a faculty panel, exhibit unusual talent in performance, and who demonstrate financial need.

No credit.

For Undergraduates and Graduates**MUSIC 165a. Elementary Orchestration**

The instruments of the orchestra: their construction, ranges, and playing techniques, with a consideration of their use by major composers; the methods of writing effectively for present-day instruments, individually and in combination; the mechanics of reading and writing a score.

Written exercises, analysis of scores, study of recorded performances, and live demonstrations.

Prerequisite: Music 61. Music 162 or 163 is also recommended.

Mr. Lucier

MUSIC 166b. Seminar in Advanced Orchestration**MUSIC 167. Composition in Traditional Forms**

To be given in alternate years.

MUSIC 171a. History and Practice of Music Criticism

An examination of music criticism from the Baroque to the present day, with special attention to important nineteenth and twentieth century critics. Practical experience through the regular writing of reviews.

Prerequisite: A knowledge of music history and theory.

Mr. Titcomb

MUSIC 180b. Ethnomusicology

An introduction to the music of nonliterate peoples; folk music; and the music of non-Western high cultures, with particular emphasis on India and Japan.

Prerequisite: Music 162 (or the equivalent) or a course in Anthropology.

See Anthropology 153b.

Mr. Titcomb

MUSIC COLLOQUIUM

Discussions of special topics led by the faculty and occasional guests. Some of the sessions will include performances of new works. Required of graduate students and concentrators in music.

No credit.

Staff

See Graduate School catalog for courses numbered 200 and above.

*Not to be given in 1967-68.

Near Eastern and Judaic Studies

Professor NAHUM N. GLATZER, *Chairman*; Professors ALEXANDER ALTMANN, JOSEPH C. LANDIS, NAHUM N. SARNA; Associate Professors N. C. BRANDWEIN, LEONARD J. FEIN, BENJAMIN HALPERN, BARUCH LEVINE, MOSHE WEINFELD; Assistant Professors LEON JICK, RAPHAEL KUTSCHER, AVIGDOR LEVY (*Student Adviser*); MR. DAVID M. GORDIS.

Requirements for Concentration

Each student will prepare his plan of study with his faculty adviser. The student must take five year courses beyond the level of Hebrew 10.

A. Required of all Candidates:

1. Hebrew 1, 2, 10.
2. Two semester courses in Biblical Studies (NEJS 14a, 114, 115a, 117a, 118).
3. One semester course in Jewish history; ancient, medieval, or modern (NEJS 149a, 166a, and 166b).
4. One semester course in Jewish philosophy, mysticism, or ethics, classical or modern (NEJS 123a, 124b).
5. One semester course in modern Hebrew literature, prose or poetry (NEJS 137a, 138a, 138b, 139b).

B. Elective Courses: Select two year (or four semester) courses in the NEJS program to fill out the requirement of five courses. Concentrators who take Arabic may be exempt from the equivalent courses in Hebrew language and literature.

C. Additional requirement for candidates for degrees with distinction: NEJS 99.

Primarily for Undergraduates

*NEJS 13a,b. Literature of the Bible

To be given in 1968-69.

NEJS 14a. Introduction to the Bible

Major themes of Biblical writing, considered against a background of history and religious thought. Selected portions of the Bible in English translation will be studied: the Pentateuch; the historical books; the Prophets (Amos through Jeremiah).

Concentrators in NEJS will have to fulfill additional assignments within the scope of the course.

This course fulfills one semester of the General Education requirements in the School of Humanities.

See Humanities 14a.

Mr. Glatzer

NEJS 14b. Introduction to the Bible

Continuation of NEJS 14a. The Prophets (Ezekiel, Second Isaiah, Jonah): The Writings—The New Testament background of early Christianity.

See Humanities 14b.

Mr. Glatzer

A student may not take both Humanities 6 and 14 in fulfillment of General Education requirements.

*Not to be given in 1967-68.

NEJS H20a. Modern Jewish History (Hiatt Institute)

A survey course, beginning with the Enlightenment in Western Europe, emphasizing the issues of Jewish emancipation and the creation of the State of Israel.

Mr. Mevorach

NEJS 21. Introductory Yiddish

Mr. Szulkin

NEJS 24. Intermediate Yiddish

Mr. Rothenberg

*NEJS 61b. Classical Judaism: Concepts and Institutions

NEJS 64a. Modern Jewish Thought

The ideological trends in modern Jewry after the Enlightenment period. The philosophies of Hermann Cohen, Martin Buber, Franz Rosenzweig, and M. Kaplan will be analyzed.

Mr. Glatzer

NEJS 98a and b. Independent Study

Staff

NEJS 99. Senior Research

Staff

For Undergraduate and Graduate Students

NEJS 100a. Neo-Sumerian Period

The biblical, cultural, religious, and administrative character of the Neo-Sumerian period, with emphasis on the third dynasty of Ur, will be studied in an effort to assess its lasting influence on the ancient Near East, with reference to the later emergence of Canaanite civilizations.

Mr. Kutscher

NEJS 100b. The Civilization of the Ancient Near East

Judea during the first commonwealth. This course, as part of the study of the civilization of the Ancient Near East, will concentrate on geographical, historical, and economic problems basic to an understanding of a crucial period in ancient Near Eastern history, the period of the Israelite monarchy.

Mr. Weinfeld

NEJS 101. Basic Arabic

An introduction to literary Arabic. Drills in grammar, pronunciation, and composition. Reading of graded classical and modern texts.

Open to students who have not previously had instruction in Arabic. *Mr. Levy*

NEJS 102. Intermediate Arabic

Study of advanced grammatical and syntactical forms. Reading of related classical and modern texts. Drills in pronunciation and composition.

Prerequisite: NEJS 101.

Mr. Levy

*NEJS 103. History of the East Mediterranean from Alexander to Mohammed

NEJS 104c. Aramaic Dialectology

A study of the Aramaic portions of the Bible, and the contemporary Aramaic documents from Egypt with emphasis on grammar and comparative and historical considerations.

See Linguistics Program.

Mr. Weinfeld

*Not to be given in 1967-68.

NEJS 106a. Elementary Ugaritic

Grammar and poetic texts.

*See MS 138a.**Mr. Gordon***NEJS 107. Elementary Akkadian***See MS 130.**Mr. Hoffner****NEJS 110b. Archeology of Mesopotamia*****NEJS 111b. History of the Biblical Text*****NEJS 114. Studies in the Biblical Cult**

Offered under NEJS 114 in other years: The Priestly Writings of the Pentateuch (formerly NEJS 113a).

*To be given in 1968-69.***NEJS 115a. Studies in Biblical Literature: The Book of Deuteronomy**

Emphasis on language, composition, and the influences of the Deuteronomic outlook on other Biblical works. The historical views and the religious institutions reflected in Deuteronomy will be analyzed.

Books offered in NEJS 115 in other years: The Five Megillot (formerly 118a), and Biblical Epic.

*Mr. Weinfield***NEJS 116. Biblical Prophecy: The Book of Jeremiah**

Selected readings (in Hebrew). An intensive examination of textual and exegetical problems; the historical background in the light of archeological finds; the personality and life of Jeremiah; the phenomenon of biblical prophecy, and the leading ideas and concepts of the book.

Students must enroll for the full year with approval of the instructor.

Offered under NEJS 116 in other years: The Minor Prophets and Ezekiel.

NEJS 117a. Biblical Wisdom Literature*Mr. Sarna*

Selected readings (in Hebrew). A comparative study of the leading motifs in the light of Mesopotamian and Egyptian texts (in translation).

Other books offered under NEJS 117 in other years: The Book of Psalms.

*Mr. Sarna***NEJS 117b. Biblical Wisdom Literature: The Book of Job and the Problem of Evil**

A reading of the Book of Job (in English translation) and a discussion of the role of the book in the literature and thought of the western world; the problem of evil in Judaism and Christianity.

*Mr. Glatzer****NEJS 118. The Historical Books of the Bible**

Books offered under NEJS 118 in other years: The Book of Chronicles.

NEJS 120b. Readings in Talmudic Literature

Consecutive selections from a text of the Babylonian Talmud with emphasis on language and historical analysis.

Books offered under NEJS 120 in other years: Jewish texts from the Early Christian Centuries (formerly NEJS 121b), The Dead Sea Scrolls.

*Mr. Gordis***NEJS 122a. Classical Bible Commentaries I**

Selected texts from the French and Spanish schools of Jewish commentators on the Pentateuch.

Mr. Altmann

*Not to be given in 1967-68.

NEJS 122b. Classical Bible Commentaries II

Selected texts from the French and Spanish schools of Jewish commentators on the Prophets and Hagiographa. *Mr. Altmann*

***NEJS 124b. Introduction to Jewish Mysticism**

***NEJS 125b. Midrashic Literature: Selected Texts from Genesis Rabba**

NEJS 135a. Medieval Jewish Philosophy: Maimonides' Guide to the Perplexed I

A study of the principal chapters involving Maimonides' doctrine of the existence and attributes of God, and his discussion of the problem of creation.

Offered under NEJS 135 in other years: The Categories of the Spiritual Life in Jewish Neoplatonism (formerly NEJS 123a). *Mr. Altmann*

NEJS 135b. Medieval Jewish Philosophy: Maimonides' Guide to the Perplexed II

A study of the principal chapters dealing with Maimonides' theory of prophecy, providence, and man's ultimate felicity. *Mr. Altmann*

NEJS 138a and b. Modern Hebrew Literature

An analytical study of the development of ideas, motifs, and structure of modern Hebrew prose and poetry. The courses will be based mainly on the works of S. Y. Agnon, Barash, Hazaz, S. Yizhar, M. Shamir in prose, and A. B. Yitzhak, Rachel, M. Shoham, Alterman, Y. Bat-Miriam, L. Goldberg in poetry. Special emphasis will be given to parallels in European literature.

Courses offered under NEJS 138 in other years: Ahad Haam and His Time (formerly NEJS 139a). *Mr. Brandwein*

NEJS 139a. Agnon and His Contemporaries (in Translation)

An intensive study of the works of S. Y. Agnon and his contemporaries, with emphasis on parallel motifs and patterns in European literature. *Mr. Brandwein*

NEJS 140b. History of the Jews: The Eastern Communities

Jewish communities of the Middle East and North Africa in the twentieth century. The historical background; social and religious institutions; modern trends; emigration and absorption in Israel and other countries.

Offered under NEJS 140 in other years: History of the Jews in Antiquity and the Middle Ages and History of the Jews in Modern Times. *Mr. Levy*

***NEJS 141. History and Sources of the Crusades**

***NEJS 144. The Modern Near East: Political Modernization in the Near East**

Offered under NEJS 144 in other years: Nationalism in the Near East (formerly NEJS 146a) and Contemporary Social Change in Israel (formerly NEJS 149b).

NEJS 147a. The Eastern Question

The decline and withdrawal of the Ottoman Empire from South East Europe and the Middle East as a problem in European diplomacy between 1699-1923; Big Power rivalries and the rise of nationalism; European economic imperialism; the Turkish Straits and the Suez Canal; the Baghdad railway; the post-World War I arrangements and the Mandate System. *Mr. Levy*

*Not to be given in 1967-68.

NEJS 147b. The Ottoman EmpireTo be given in 1968-69.***NEJS 149a. History of Palestine and Contemporary Israel**

An examination of the inter-relationships between social and political institutions in modern Israel. Change and development in ideological and institutional patterns. *Mr. Fein*

NEJS 151b. Introduction to Islamic PhilosophyTo be given in 1968-69.***NEJS 160. Problems in American Jewish History**

The development of American Jewish life from the perspective of American history as well as modern Jewish history. Social and economic factors affecting successive waves of immigration. Modes of acculturation: the emergence of distinctive American Jewish patterns.

Offered under NEJS 160 in other years: American Jewish Institutional History. *Mr. Jick*

NEJS 163a. The Contemporary American Jewish Community

This course will explore the dynamics of continuity and change in the concept of community among American Jews, the trends of development in structure, functions, and priorities of communal concern, and in attempts at coordination and unity. The basic question of relationship to the total American community will likewise be considered. *Mr. Janowsky*

NEJS 166a. Modern Jewish Intellectual History to 1870To be given in 1968-69.****NEJS 166b. Modern Jewish Intellectual History since 1870***To be given in 1968-69.***NEJS 168a. Modern Jewish History: The Destruction of European Jewry**

This course will deal with the destruction of European Jewry by studying the Nazi anti-Semitic ideology, the world of the Nazi bureaucracy and the executioners; the internal life of the ghettos and the concentration camps. It will combine the manner of traditional historiography with the knowledge and insight supplied by the social sciences. A knowledge of German, Yiddish or Hebrew is desirable but not essential to participation in the course. *Mr. Goldhagen*

NEJS 168b. Topics in East European Jewish History

This course will deal with selected topics in East European Jewry to be determined every year by common agreement of the instructor and the students.

NEJS 171. Modern Yiddish Literature (in Translation)*Mr. Goldhagen*

A survey of the chief figures of Yiddish literature during the past century, with emphasis on the historical and cultural content. The major writers from Mendeleyev, Peretz, and Sholem Aleichem to Bashevis Singer and their response to a world in transition. *Mr. Landis*

NEJS 172b. Seminar in Selected Twentieth Century Yiddish Authors*Mr. Landis*

See Graduate School catalog for courses numbered 200 and above.

*Not to be given in 1967-68.

Philosophy

PROFESSOR PETER DIAMANDOPOULOS, *Chairman*; Professors HENRY D. AIKEN, FREDERIC SOMMERS, STEPHEN E. TOULMIN, JOHN VAN HEIJENOORT, HAROLD WEISBERG; Assistant Professors RICHARD BURIAN, JAMES W. CHILD, ROBERT S. GREENBERG (*Student Adviser*).

Requirements for Concentration

A. Required of all Candidates: Philosophy 15a, 17b, 143a and 143b and two semester courses chosen from those numbered 100 and above, with the exception that neither Philosophy 143a nor Philosophy 143b may satisfy this latter requirement, and that one of those semester courses must be a systematic-analytic course, e.g., metaphysics, theory of knowledge, philosophy of science, philosophy of history, etc.

B. Additional Requirement for candidates for degrees with distinction: Philosophy 99.

For courses in Jewish Philosophy see NEJS.

PHILOSOPHY 1. Introduction to Philosophy:

Problems of Philosophy

A general course presenting the problems of philosophy, especially in the areas of metaphysics, epistemology, ethics, and social and political philosophy. Problems in other areas, including esthetics and philosophy of religion may also be discussed. Discussion will focus on the treatment these problems have received in the history of philosophy. The texts will include works of selected philosophers of various historical periods from antiquity to the present. Philosophical doctrines will be applied to contemporary problems.

Required of all concentrators.

Staff

PHILOSOPHY 12a,b. Value and Nature

First semester: The cosmological view of man's place in nature from the Greeks to the nineteenth century.

Mr. Toulmin

Second semester: Some major problems of value and ethics in the Western philosophic tradition; e.g., ethical relativism, freedom of the will, capital punishment.

Mr. Diamandopoulos

See Humanities 12a,b.

PHILOSOPHY 13a. Introduction to Philosophy of Art

An examination of several leading theories of art, beauty and esthetic judgment and a review of recurring problems such as the form of a work of art, communication in art and meaning in esthetic judgment.

Mr. Aiken

PHILOSOPHY 15a. Introductory Logic

Truth-functional logic. Singular predicate calculus and the syllogism. Introduction to quantification theory.

Mr. van Heijenoort

PHILOSOPHY 15aR. Logic

Mr. Child

PHILOSOPHY 17b. Introduction to Ethics

An introduction to ethical theory and types of ethical thought through reading and discussion of selected classical and contemporary texts.

Mr. Burian

PHILOSOPHY 23b. Philosophy of Education

Significant tendencies in educational thought. An analysis of classical and contemporary philosophical models of the educational process as related to problems of knowledge, value, human nature, and social theory. Reading and discussion of current social and educational criticism.

Mr. Reitzes

PHILOSOPHY 40b. The Conflict of Ideologies in Western Civilization

An historical and analytical study of major ideological tendencies since the decline of medieval Christendom: the impact of the new science, rationalism, and the doctrines of natural law and natural rights; empiricism and utilitarianism, liberalism and democracy; the critique of reason and the rise of romanticism; historicism and evolution; socialism and Marxism; new forms of collectivism, fascism and nazism; the significance of existentialism, despair and hope in the age of cold war.

Mr. Aiken

PHILOSOPHY 52a. Philosophy of Religion

An analysis of traditional religious beliefs and concepts and a critique of attempts to justify or modify them such as religious existentialism, linguistic analysis of religious language, "death of God" movement.

No prerequisite. Not open to freshmen.

Mr. Weisberg

PHILOSOPHY 98c. Senior Seminar

Readings, reports, and discussions on assigned topics.

Required of all concentrators.

Prerequisite: Permission of Department.

Staff

PHILOSOPHY 99. Senior Research

Preparation of honors work under the supervision of the department.

Prerequisite: Permission of Department.

Staff

For Undergraduate and Graduate Students

(For undergraduates—Open only to juniors and seniors who have a minimum of one year of Philosophy or by special permission of the instructor.)

To avoid a proliferation of listings, only those courses offered in a given academic year are described below. A number of current offerings are crosslisted with the History of Ideas offerings.

PHILOSOPHY 104a. Pre-Socratic Philosophy**PHILOSOPHY 105a. Plato****PHILOSOPHY 105b. Aristotle**

An introduction to Aristotle's thought through an intensive reading of some selected treatises.

Mr. Sommers

PHILOSOPHY 108b. Greek Political Thought: The Tradition from the Age of Homer to Plato

See Classics 107b.

Mr. Stewart

PHILOSOPHY 115a. Intermediate Logic

Propositional calculus. Quantification theory. Satisfiability and validity. Completeness. Lowenheim-Skolem theorem. Many-sorted logic. Theory of types.

See Linguistics Program.

Mr. van Heijenoort

*Not to be given in 1967-68.

*PHILOSOPHY 117a. Ethical Theory in the Twentieth Century

PHILOSOPHY 118b. Philosophy and the Idea of Nature

The roots of philosophical patterns in natural sciences: with particular reference to the seventeenth and eighteenth centuries. *Mr. Toulmin*

PHILOSOPHY 119a. Theory of Knowledge

The problem of knowledge will be discussed from a variety of standpoints: concepts and precepts, comparative logic, the psychology and neurophysiology of cognition, the historical development of conceptual traditions. *Mr. Sommers*

PHILOSOPHY 121b. Foundations of Mathematics

Formal systems. Godel's theorems and consequences. Consistency proofs. Introduction to the theory of recursive functions. Hilbert's program and intuitionism.

See Linguistics Program.

Mr. van Heijenoort

*PHILOSOPHY 130a. Philosophy of Logic

*PHILOSOPHY 131a. Theory of Symbols

*PHILOSOPHY 133a. Contemporary Continental Philosophy: Phenomenology and Existentialism

PHILOSOPHY 133b. Contemporary Analytic Philosophy

Selected topics in metaphysics, epistemology, and theories of meaning as treated by certain contemporary analytic philosophers. *Mr. Greenberg*

PHILOSOPHY 140a. Philosophy of Science

A critical discussion of the topics of explanation, confirmation, theoretical terms, and scientific methodology. *Mr. Child*

PHILOSOPHY 143a. Continental Rationalism

Intensive study of selected texts from Descartes, Spinoza, and Leibniz.

Mr. Diamandopoulos

PHILOSOPHY 143b. British Empiricism

Intensive study of selected works of Locke, Berkeley, and Hume. *Mr. Aiken*

PHILOSOPHY 151b. Social and Political Philosophy: Conflict of Ideologies in Western Thought

The problem of justifying social and political beliefs, including a critical examination of leading attempts to justify such beliefs by appeal to history, natural law, human nature, and theology.

No prerequisite. Not open to freshmen.

Mr. Aiken

PHILOSOPHY 152b. Philosophy of History

Various epistemological and methodological issues.

Mr. Weisberg

PHILOSOPHY 156a. Philosophy of Mind

A discussion of several major problems in the philosophy of mind. *Mr. Burian*

*Not to be given in 1967-68.

PHILOSOPHY 157a. Philosophy of Language

Nature and uses of language, theories of meaning, and predication.

See Linguistics Program.

Mr. Sommers

PHILOSOPHY 158b. Metaphysics*PHILOSOPHY 167a. Kant**

A contemporary analytic approach to certain problems in the *Critique of Pure Reason*.

Mr. Greenberg

Physics

Professor JACK S. GOLDSTEIN, *Chairman and Director of Astrophysics Institute*; Professors STEPHAN BERKO, STANLEY DESER, DAVID L. FALKOFF, EUGENE P. GROSS, BERTEL E. LAURENT, EDGAR LIPWORTH, SILVAN S. SCHWEBER; Associate Professors MAX CHRÉTIEN, MARCUS T. GRISARU, MICHAEL W. KLEIN, HUGH N. PENDLETON, III, HOWARD J. SCHNITZER; Assistant Professors JOHN L. CHALLIFOUR, H. DANIEL COHEN, IRA H. GILBERT (*Undergraduate Adviser*), KENNETH J. GOLDEN, PETER HELLER, CHRISTOPH HOHENEMSER, LAWRENCE E. KIRSCH, ROBERT V. LANGE, ALAN T. RAMSEY, MARCEL SCHNEEBERGER, SANFORD E. WOLF; MR. ROBERT GOLUB, DR. ALLEN P. MILLS, JR., DR. HENRI E. MITLER, DR. L. KENT MORRISON.

Requirements for Concentration

A. The minimum requirement for concentration in Physics is 11 semester courses in physics and 2 semester courses in mathematics. Of the 11 semester courses in physics, at least 3 must be semester courses in laboratory work and of the 11 semester courses, 2 must be from among the following: Physics 30a,b, 36b, 39a,b, 40a,b, 49a,b, 50a,b. (Mathematics 1 does not fulfill the concentration requirement.)

B. In exceptional cases, students may be permitted to substitute related courses in other fields for concentration requirements, subject to the approval of the department.

C. Students who have attained a grade of 3, 4, or 5 on the Advanced Placement Examination may obtain credit for Physics 10.

D. Additional requirement for candidates for degrees with distinction: Physics 99 or two graduate semester courses (with honor grades).

E. Students may be admitted to a special four-year M.A. program upon recommendation of the department and the Graduate School.

PHYSICAL SCIENCE 1a. Introduction to Classical Physics

A survey of the concepts and laws of classical mechanics, electromagnetism, and thermodynamics.

Mr. Pendleton and Staff

PHYSICAL SCIENCE 1b. Introduction to Modern Physics

A survey of the concepts and laws of quantum mechanics and nuclear physics. The course stresses the practical application of physical theories.

*Not to be given in 1967-68.

Mr. Chrétien and Staff

PHYSICAL SCIENCE 2a. Introduction to Computer Sciences

The course will discuss the logical structure of modern computers; their applications and expected impact on society. Among the topics to be treated: binary arithmetic, Boolean algebra, computer programming, computer languages, the application of computers to education and research. Instruction in the elements of FORTRAN programming; optional exercises on the Brandeis computers.

Mr. Chrétien and Staff

PHYSICAL SCIENCE 2b. Introduction to Astronomy

The solar system, our local galaxy, and the metagalaxy will be examined using the information obtained in observational astronomy as structured by astrophysical theory. The evolution of stars, of the chemical elements, and of the observable universe will be similarly inferred.

Mr. Gilbert and Staff

PHYSICS 10. Elementary Physics

The phenomena and concepts of physics and their mathematical description.

The course requires proficiency in elementary mathematics including trigonometry or Mathematics 10 which may be taken concurrently. Physics 18c is optional for Physics 10 students. However, a physics course *with* laboratory is a prerequisite for medical and dental schools, and students intending to pursue such a career should register for Physics 18c.

Mr. Wolf and Staff

PHYSICS 11. Basic Physics I

The course covers the basic laws of classical physics and their application to macroscopic and microscopic systems; Newtonian with relativistic mechanics; thermodynamics and statistical mechanics and elementary electromagnetism presented from a modern point of view.

Co-requisite: Mathematics 10, 11, 12 or equivalent.

The course is recommended for all eligible students who plan to concentrate in science. Physics concentrators should take it in their freshman year. Students should check their departmental requirement with respect to the laboratory course, Physics 19c.

Three lectures and one recitation per week.

Mr. Schweber and Staff

PHYSICS 18c. Introductory Laboratory

Laboratory course consisting of basic physics experiments designed to supplement Physics 10. A student should consult his departmental adviser to ascertain whether this course is required in his study program.

Three laboratory hours per week. *3 credits.*

Laboratory fee: \$10.

Staff

PHYSICS 19c. Physics Laboratory I

Laboratory course consisting of basic physics experiments designed to supplement Physics 11. A student should consult his departmental adviser to ascertain whether this course is required in his study program.

Three laboratory hours per week. *3 credits.*

Laboratory fee: \$10.

Staff

PHYSICS 20a,b. Basic Physics II

A continuation of Physics 11. The emphasis will be on the description and mathematical analysis of wave phenomena. Detailed treatment of electromagnetism, optics, sound, atomic physics and elements of wave mechanics.

Two lectures and two recitations per week.

Prerequisite: Physics 11 or Physics 10 with permission of instructor. *Mr. Heller*

PHYSICS 25b. Introduction to Astrophysics

The dynamics of planetary and stellar systems. The physical properties of stellar and interstellar systems. Elements of cosmology.

Prerequisite: Physics 10 or 11.

Mr. Goldstein

PHYSICS 29a,b. Physics Laboratory II

Laboratory course in electromagnetic phenomena. Alternating current circuits, electronics, semi-conductors, optics.

Six laboratory hours per week.

Mr. Berko

PHYSICS 30a,b. Atomic and Nuclear Physics

A seminar course dealing with the basic experiments, concepts, and mathematical analysis of atomic physics, spectroscopy, and nuclear physics. Includes an introduction to quantum mechanics.

Prerequisite: Physics 20a,b.

Mr. Hohenemser

PHYSICS 31a,b. Methods of Mathematical Physics

Use of mathematical methods in the solution of typical problems of physics. The methods to be used: linear algebra, vector calculus, Fourier analysis, ordinary and partial differential equations, complex variables. *Messrs. Grisaru and Gross*

PHYSICS 36b. Modern Optics*PHYSICS 39a,b. Physics Laboratory III**

A laboratory course involving the performance of representative experiments in atomic, molecular, and nuclear physics—some involving independent research by the student. The course will undertake a detailed analysis of other fundamental experiments not performed. Designed to be taken concurrently with Physics 30.

Prerequisite: Physics 29a,b.

Mr. Golub

*Not to be given in 1967-68.



PHYSICS 40a,b. Properties of Matter I

A seminar course in the phenomenology and microscopic description of the bulk properties of matter stressing the development of a working knowledge of thermodynamics, kinetic theory, statistical mechanics, and wave mechanics. Applications will be to the various states of matter.

Prerequisite: Physics 20a,b.

Mr. Cohen

PHYSICS 49a,b. Properties of Matter II

A seminar course designed to be taken concurrently with Physics 40. Selections will be in the physics of metals, semiconductors, insulators; chemical bonding; and low temperature physics. Experiments in the field of solid state physics will be carried out.

Staff

PHYSICS 50a,b. Theoretical Physics

Lagrangian and Hamiltonian methods applied to the dynamics of particles and fields. Normal modes. Lattice dynamics. Solution of the boundary value and scattering problems arising in electromagnetism, sound, wave mechanics and fluid dynamics. Introduction to non-linear phenomena.

The course will aim at developing familiarity with the mathematical tools useful in physics.

Prerequisite: Approval of instructor.

Messrs. Deser and Schnitzer

PHYSICS 97a,b. Tutorial in Physics

Staff

PHYSICS 98a,b. Reading in Physics

Open to exceptional students who wish to study an area of physics not covered in the standard curriculum.

Staff

PHYSICS 99. Senior Research

Research assignments and preparation of a report under the direction of an instructor.

Staff

For Undergraduate and Graduate Students

Courses in the 100 series are open to qualified undergraduate students, although they are primarily first year graduate courses.

PHYSICS 100a. Theoretical Mechanics

Mechanics of point systems. Lagrangian and Hamiltonian methods. Small vibrations. Transformation theory. Integral invariants. Kinematics and dynamics of rigid bodies. Perturbation theory. Relativistic mechanics.

Mr. Gilbert

PHYSICS 100b. Continuum Mechanics*PHYSICS 101a,b. Electromagnetic Theory**

Electrostatics, magnetostatics, boundary value problems. Maxwell's equations. Quasi-stationary phenomena. Radiation.

Mr. Challifour

PHYSICS 102a,b. Quantum Mechanics

Representations, pictures, operator methods. Schrödinger equation and applications. Spin. Addition of angular momenta; helium spectrum. Pauli principle. Atomic and molecular structure. Elementary scattering theory; atomic and nuclear scattering. *Messrs. Pendleton and Lange*

PHYSICS 103a. Low Energy Nuclear Physics

Experimental methods. Phenomenology of nuclear properties. Two-nucleon problem. Models for nuclear structure. Radioactivity. *Mr. Kirsch*

PHYSICS 103b. High Energy Nuclear Physics

High energy accelerators and particle detectors. Relativistic kinematics. Classification schemes of elementary particles, conservation laws. *Mr. Kirsch*

PHYSICS 104a. Modern Atomic and Molecular Physics

Microwave spectroscopy, NMR, atomic beams, optical pumping, masers and lasers. *Mr. Lipworth*

PHYSICS 104b. Solid State Physics*PHYSICS 109a,b. Advanced Laboratory**

Experimental Physics Staff

PHYSICS 110a. Mathematical Physics

Complex variables. Differential equations. Boundary value problems. Special functions. Integral equations. Numerical methods. *Mr. Morrison*

PHYSICS 110b. Mathematical Physics

Linear vector spaces: matrices, operators, Hilbert spaces. Orthogonal functions. Probability theory. *Mr. Morrison*

See Graduate School catalog for courses numbered 200 and above.

Politics

Professor NORTON E. LONG, *Chairman*; Professors LAWRENCE H. FUCHS, WALTER LAQUEUR, MAX LERNER, ROY C. MACRIDIS, JOHN P. ROCHE, KENNETH N. WALTZ; Associate Professors DONALD HINDLEY, EUGENE J. MEEHAN, RUTH SCHACHTER, MORGENTHAU, I. MILTON SACKS, PETER WOLL; Assistant Professors ROBERT J. ART, EUGENE BARDACH, ERICH GOLDBACH, SHERIDAN W. JOHNS III, ISAAC KRAMNICK (*Student Adviser*), ERIC A. NORDLINGER, LESLIE J. ROOS, JR.; DR. ERNEST STOCK.

Requirements for Concentration

A. Required of all Candidates: Politics 1a or 1b.

B. Concentrators are required to complete a total of ten one-semester courses in Politics. Politics 1a and 1b will count towards this requirement. At least one course must be taken in each of three of the following fields. American Government, Comparative Government, International Relations, and Political Theory. Students should plan their programs carefully in close cooperation with their advisers.

*Not to be given in 1967-68.

C. Courses that fall into the respective areas are as follows:

American Government:	Politics 12b, 21a, 21b, 56a, 121a, 121b, 128a, 156a, 156b, 157a.
Comparative Government:	Politics 11a, 11b, H131a, 144a, 152a, 154b, 164a, 164b, 165b, 166a, 166b, 167a, 167b, 168b, 169a, 169b, 172a, 173b, 177a.
International Relations:	Politics 72a, 72b, 165b, 168b, 171b, 175b, 177a, 178a, 178b, 179a, 179b, 180b.
Political Theory:	Politics 1a, 1b, 80a, 191b, 192a,b, 193b, 195a, 196b, 197aR, 198b.

POLITICS 1a,b. The Western Political Tradition

An introduction to political thought and political institutions of the West. Historical in orientation, the course focuses on the development of political ideas such as justice, power, natural law, and the corresponding evolution of political institutions from the polis to the modern nation-state.

Open to freshmen.

Mr. Kramnick

POLITICS 11a. Introduction to European Government

A comparative study of government in the advanced western states with emphasis on Great Britain, France, Germany, and the USSR.

Open to freshmen.

Mr. Macridis

POLITICS 11b. Introduction to the Politics of Non-Western States

A comparative study of government in the developing countries of Africa, Asia, and Latin America.

Open to freshmen.

Mr. Johns

POLITICS 12b. American Government

An analysis of American political institutions: Congress, Presidency, Supreme Court, Bureaucracy, political parties, pressure groups, and problems of governmental decision-making will be examined in relation to specific areas of public policy.

Open to freshmen.

Mr. Woll

POLITICS 21a. Parties, Pressure Groups and Public Opinion

An examination of the American political process with specific reference to the development, role, and implications of political parties, pressure groups, and public opinion.

Mr. Bardach

POLITICS 21b. Political Behavior

An examination of the nature and implications of political behavior, with specific reference to American politics.

Mr. Bardach

***POLITICS 56a. Civil Liberties in America**

To be given in alternate years.

POLITICS 72a. Introduction to International Politics

An examination of such explanations of international politics as those developed by liberals, pacifists, socialists, and behavioralists. Diplomacy, peace, imperialism, and war in the heyday of the European state system.

Mr. Waltz

*Not to be given in 1967-68.

POLITICS 72b. Dynamics of International Politics

The international quest for peace in the period of the two world wars of the twentieth century. The emergence of global politics. The application of such policies as disarmament, collective security, appeasement, and isolation. The interaction of national policies. The causes and effects of the Second World War.

Mr. Waltz

POLITICS 80a. The Study of Politics

A critical survey of the main lines of inquiry in contemporary political science intended to develop the student's critical capacity with reference to both the empirical and normative aspects of the study of politics. A written critique of current research in some area of politics will be required.

Mr. Meehan

POLITICS 97a. Senior Colloquium

Section 1. American Political Ideologies

Mr. Bardach

Section 2. Modern Political Ideologies

Mr. Goldhagen

Section 3. Nationalism and Political Integration

Mr. Johns

POLITICS 98a,b,c. Independent Study

Staff

POLITICS 99. Senior Research

Staff

POLITICS 121a. The Politics of Urban Areas

An examination of the evolutions and problems of state, local, and regional governmental units.

Mr. Long

***POLITICS 121b. Seminar in Community Government**

To be given in 1968-69.

POLITICS 128a. Public Administration and Public Policy

A study of the dynamics and problems of policy formation and administration in the federal government.

Mr. Woll

POLITICS H131a. Israeli Government and Politics (Hiatt Institute)

The emerging political institutions of a rapidly developing society. Lectures and field work conducted in Israel under the Hiatt Institute. *4 credits.*

Mr. Stock

POLITICS 144a. Soviet Russia

A general analysis of the government, foreign relations, and ideology of contemporary Russia. The analysis emphasizes the country's history from the origin of the Bolshevik movement to the present.

Mr. Johns

POLITICS 152a. Political Parties

A comparative analysis of the internal distribution of power and the types of competition among political parties. Consideration of the factors that shape the operation of party systems and their interrelationships with governmental institutions and pressure groups. The students are free to choose any democratic party system as a subject for their papers.

Mr. Nordlinger

POLITICS 154b. Seminar in Government Planning

The theory and practice of modern government planning. The problems of planning in a democracy.

Mr. Long

*Not to be given in 1967-68.

POLITICS 156a. History of American Constitutional Law and Theory

See History 166a.*Mr. Levy*

POLITICS 156b. History of American Constitutional Law and Theory

See History 166b.*Mr. Levy*

*POLITICS 157a. Judicial Power and American Politics

To be given in 1968-69.

POLITICS 164a. The Politics of Africa

A study of nationalism, political thought and political institutions in Africa. Consideration is given to the evolution of African nationalism and to the political implications of continuity and change in social and economic organization.

Mrs. Morgenthau

POLITICS 164b. Seminar in African Political Development

Prerequisite: Politics 164a.*Mrs. Morgenthau*

POLITICS 165b. National and International Politics of Southern Africa

A study of the political structure of Southern Africa, including the Republic of South Africa, South-West Africa, the British Protectorates, Rhodesia, Zambia, Malawi, and the Portuguese territories. Analysis will focus upon the dynamics of race relations, the development of nationalism, attempts at regionalism, and the nature of international involvement in Southern Africa.

Mr. Johns

*POLITICS 166a. The Politics of Northern Latin America

To be given in 1968-69.

*POLITICS 166b. The Politics of Southern Latin America

POLITICS 167a. The Government and Politics of China

An introductory study of the development of political thought and governmental institutions in modern China.

Mr. Sacks

POLITICS 167b. The Government and Politics of Japan

An introductory survey of the government and politics of Japan from the Meiji Restoration to the present.

Mr. Sacks

*POLITICS 168b. International Politics of the Far East

POLITICS 169a. Government and Politics: Southeast Asia

A survey of the struggle for independence and the post-independence political problems facing the peoples of mainland and island Southeast Asia. The course concentrates on Viet Nam, Laos, Thailand, Malaysia, and Indonesia.

Mr. Sacks

POLITICS 169b. Government and Politics: South Asia

An introductory study of the peoples, political thought, and government institutions of South Asia (India, Pakistan, and Ceylon).

Mr. Sacks

POLITICS 171b. International Communism

Origins and development of the world Communist movement. Its ideology: Marxism, Leninism, Stalinism. The impact of the Communist power system on

*Not to be given in 1967-68.

contemporary world politics, with special reference to the underdeveloped areas and newly emergent states. *Mr. Goldhagen*

POLITICS 172a. Theories of World History

The course will focus on efforts of historians and historical theorists to explain the course of world history, with emphasis on Vico, the French eighteenth century historical theorists, Hegel, Marx, Nietzsche, Burckhardt, Spengler, Croce, H. G. Wells, Toynbee, Voegelin, McNeill. *Mr. Lerner*

POLITICS 173b. European Political Systems

A seminar for the analysis of various theories and explanations for the operation of democratic political systems in Europe, combined with an intensive study of politics and society in England, France, and Germany. *Mr. Nordlinger*

POLITICS 175b. Contemporary International Relations

A discussion of such factors and problems as disarmament, collective security, Soviet and American foreign policy, nuclear strategy, and internal war as they influence the pattern of international politics. *Mr. Nordlinger*

POLITICS 177a. Comparative Foreign Policy

The course will deal with a discussion of the underlying factors shaping foreign policy and a detailed discussion of the foreign policy of some of the major powers including the United States and the Soviet Union. *Mr. Macridis*

POLITICS 178a. American Foreign Policy

An analysis of the objectives of American foreign policy. Concepts such as the national interest, isolation, imperialism, collective security, collective defense, and balance of power will be examined from the standpoint of the American experience. Illustrative material will be drawn from both the nineteenth and twentieth centuries. Comparisons with Great Britain, France, and the Soviet Union will be used to sharpen the analysis. Attention will also be paid to the impact of changing technology on American strategic objectives with particular reference to the post-World War II era. *Mr. Art*

POLITICS 178b. American Foreign Policy

An analysis of the formulation and implementation of the objectives of American foreign policy. The course will focus on two areas: how foreign policy decisions are made and how they can be effectively carried out. Included in the analysis will be an examination of the effects of national character, bureaucratic behavior, governmental institutions, political personalities, and social groups on these two areas. Substantive issues, such as arms control, disarmament, limited war, and foreign aid will be used to develop the concepts of the course. *Mr. Art*

*POLITICS 179a. Problems of National Security

To be given in 1968-69.

*POLITICS 179b. Seminar in International Relations

To be given in 1968-69.

*Not to be given in 1967-68.



Shapiro Forum

POLITICS 180b. Human Rights and the Protection of Minorities

An analysis will be made of varying concepts of human rights and minority rights and of the extent of international responsibility for the promotion and observance of such rights. The patterns of international protection evolved prior to the organization of the United Nations will be studied, and special attention will be devoted to the efforts of the United Nations—the Universal Declaration of Human Rights, the Genocide Convention, etc. The effects and achievements will be appraised.

Mr. Janowsky

POLITICS 191b. Greek Political Thought: The Tradition from the Age of Homer to Plato

See Classics 107b.

Mr. Stewart

POLITICS 192a,b. Administration and Development

An examination of empirical research dealing with development administration. Where applicable comparisons with European and American administrative systems will be made.

Mr. Roos

POLITICS 193b. Survey Analysis

A discussion of both substantive findings and methodological problems connected with survey analysis. Considerable emphasis will be placed upon opportuni-

ties for secondary analysis through various inter-university cooperative arrangements.

Mr. Roos

***POLITICS 195a. Ancient and Medieval Political Theory**

To be given in 1968-69.

POLITICS 196b. Topics in Modern Political Theory: Revolution and Revolutionary Political Thought

A study of political thought and modern revolutions. The course will focus on the English, French, American, and Russian Revolutions. An effort will be made to relate the historical events to the political writings which emerged in each period.

Mr. Kramnick

POLITICS 197aR. Contemporary Political Theory

A systematic analysis of contemporary problems in political theory.

Mr. Meehan

POLITICS 198b. Responsible Political Evaluation

A systematic analysis and criticism of normative judgment in contemporary politics.

Mr. Meehan

Psychology

Professor RICARDO B. MORANT, *Chairman*; Professors EUGENIA HANFMANN, BRENDAN A. MAHER, A. H. MASLOW, HARRY RAND, MARIANNE L. SIMMEL; Associate Professors JAMES B. KLEE, JEROME WODINSKY; Assistant Professors J. D. W. ANDREWS, JAMES FADIMAN, RICHARD KATZ, HARVEY S. LONDON, MELVYN SCHNALL, SIDNEY L. STECHER (*Student Adviser*), ARTHUR WINGFIELD; DR. DONALD B. GIDDON, MR. JOHN W. SENDERS.

Requirements for Concentration

A. All concentrators will take Psychology 1a or 1aR, 2a or 2aR (formerly 2b).

B. All concentrators will take two courses from the following list: Psychology 118a, 119b, 120a or 120aR, 140a, 159b, and six additional semester courses in psychology. With the consent of the student's adviser, one or two semester courses in other departments may count toward this total.

C. Candidates for degrees with distinction must take Psychology 99 in addition to the foregoing.

D. Students who plan to do graduate work in Psychology will take Psychology 11a or 11aR and 120a or 120aR (preferably before the end of the junior year) and Psychology 50b.

Unless otherwise noted, courses numbered 130 or higher are seminars with limited enrollment, and require the consent of the instructor. Junior or senior standing will usually be required. In cases where more than the maximum number of students wish to enroll in a course, criteria for selection will include the number of seminars taken previously, to provide equal opportunity for all concentrators.

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Connected with the Department of Psychology is a Nursery School to provide students an opportunity for observing children.

*Not to be given in 1967-68.

Primarily for Undergraduates

PSYCHOLOGY 1a. Introduction to Psychology: Personality

An introduction to the study of development and adjustment dealing with intelligence, emotion, motivation, and personality structure. Experimental, comparative, and clinical approaches are illustrated. *Mr. Schnall*

PSYCHOLOGY 1aR. Introduction to Psychology: Personality *Mr. Fadiman*

PSYCHOLOGY 2a. Introduction to Psychology: Cognitive Processes

Problems in the study of perception, learning, language, and thought are introduced and discussed as directive and integrative processes. Experimental, comparative, and clinical approaches are illustrated. *Mr. Wingfield*

PSYCHOLOGY 2aR. Introduction to Psychology: Cognitive Processes *Mr. Schnall*

*PSYCHOLOGY 10a. The Psychology of Human Inquiry

PSYCHOLOGY 11a. Statistics and Quantitative Methods

This course will deal with the fundamentals of descriptive and inferential statistics with particular emphasis on techniques useful in the behavioral sciences but not limited to those. The students will be introduced to a variety of modern quantitative techniques as well as to the use of digital computers and calculating machines. There are no mathematical prerequisites for the course although some prior exposure to elementary algebra would be desirable.

Four credit hours. Lectures and laboratory. Messrs. Senders and Stecher

PSYCHOLOGY 11aR. Statistics and Quantitative Methods *Messrs. Senders and Stecher*

PSYCHOLOGY 12a. Experimental Social Psychology

A general survey of the field of social psychology with emphasis on evidence from experimental sources. The course will include a methodological and historical introduction, and surveys of group dynamics, attitude research and personality research.

No prerequisites. Mr. Fadiman

PSYCHOLOGY 15b. Child Development

Emphasis is on the first twelve years of life as conceptualized and documented in the works of Sigmund Freud, Erik Erikson, Jean Piaget, and others.

Prerequisite: Psychology 1a or 2b or permission of the instructor. Enrollment will be limited. *Mr. Andrews*

PSYCHOLOGY 18a. Motivation

Theoretical, experimental, clinical and comparative evidence on human needs, wishes, and aspirations.

Prerequisite: Psychology 1a or permission of instructor. *Mr. Katz*

PSYCHOLOGY 18aR. Motivation *Mr. Fadiman*

*Not to be given in 1967-68.

PSYCHOLOGY 30b. Educational Psychology

What is the role of education in developing awareness of self and environment? Examination of issues in the educational process such as interpersonal communication, self-image, and expectations. Experiential exercises, readings, and lectures. *Mr. Katz*

PSYCHOLOGY 35b. Modern Technology and Behavior

The nature of the modern technological world both influences and is influenced by human abilities and limitations. This course will examine some of the ways in which both of these relationships develop.

Prerequisite: Psychology 2a, 11a, or permission of instructor. *Mr. Senders*

PSYCHOLOGY 50b. Introduction to Psychological Theory

The theoretical contributions of psychoanalysis, behaviorism, Gestalt psychology, and other schools will be examined in an historical framework.

Prerequisite: Two semester courses in psychology. This course will ordinarily be taken in the sophomore or junior year. *Mr. Wodinsky*

PSYCHOLOGY 96a. Field Work in Child Psychology

In addition to class meetings, each student will spend one morning a week (3 hours) observing and participating in the nursery school.

Prerequisite: Psychology 1a, 15b, and permission of instructor. Enrollment limited to 10. *Miss Simmel*

PSYCHOLOGY 96aR. Field Work in Child Psychology

Miss Simmel

PSYCHOLOGY 98a,b, and c. Readings in Psychological Literature

Readings and reports under the direction of a faculty supervisor. Open to a small number of juniors and seniors with permission of Mr. Klee. *Staff*

PSYCHOLOGY 99. Senior Research

Senior candidates for a degree with distinction in psychology may enroll in Psychology 99 with permission of Mr. Klee. *Staff*

For Undergraduate and Graduate Students

PSYCHOLOGY 115a. Experiential Approaches to the Study of Personality

A research-oriented examination of transformations of consciousness such as occur in "peak" or "psychedelic" experiences. Techniques for evoking these transformations of consciousness, for example, the "solo" experience and personal growth communities. Assessment of these transformations. The relationship between these transformations and society. Cross-cultural emphasis.

Prerequisites: Senior or graduate standing or permission of instructor. Enrollment limited to 15. *Mr. Katz*

PSYCHOLOGY 118a. Physiological Psychology

Those aspects of physiology most relevant to psychological investigation: the anatomy and physiology of receptor and effector organs, the neuron and synapse, sensory and motor neural pathways, the integrative activity of the central nervous system, the autonomic system and the action of hormonal factors.

Prerequisite: Psychology 2b or permission of instructor. *Mr. Stecher*

PSYCHOLOGY 119b. Comparative Psychology

Comparison of the behavior of various species, including man, in an evolutionary perspective.

Prerequisite: Psychology 2b or permission of the instructor. *Mr. Wodinsky*

PSYCHOLOGY 120a. Experimental Psychology

Individual or group research carried out under supervision. Techniques of experimentation, experimental design. *4 credits.*

Prerequisite: Psychology 2b or permission of the instructor.

Messrs. Morant and Wingfield

PSYCHOLOGY 120aR. Experimental Psychology

Messrs. Wingfield and Morant

PSYCHOLOGY 122b. Advanced Experimental Psychology

Individual research carried out under supervision. Analysis of the classical and newer psychophysical methods.

Prerequisite: Psychology 120a.

Mr. Stecher

PSYCHOLOGY 123b. Non-Verbal Experience and Communication

An attempt to understand non-verbal experience and communication by examining specific non-verbal media such as body language and selected art forms. These media as expressive modes, stimulus material and assessment techniques. Cross-cultural emphasis.

Prerequisite: Permission of instructor. Enrollment limited to 15. *Mr. Katz*

PSYCHOLOGY 124b. Human Memory

A detailed examination of traditional and contemporary views on the nature and processes involved in short and long-term memory.

Mr. Wingfield

PSYCHOLOGY 130a. Psychology of Problem Solving and Learning

A study of the creative process, its background and consequences and its relation to perception and learning theory.

Open to juniors and seniors.

Mr. Klee

PSYCHOLOGY 131b. Psychology of Symbolic Processes*PSYCHOLOGY 132b. Psychology of Emotions**

A consideration of the value dimension of the individual's dynamic relation to the world about him in both its positive and disruptive aspects.

Enrollment limited to 15.

Mr. Klee

PSYCHOLOGY 133a. Choice, Will and the Ego

A revaluation of the "active person." Choice, freedom, and responsibility will be considered as psychological problems. A study will be made of the relevance to choice and action of hedonics, knowledge, reason, and religion, and of man's relation to his perception of good and evil, sickness and health. An assessment of the individual's role in disease and conflict.

Enrollment limited to upperclassmen.

Mr. Klee

PSYCHOLOGY 134a. Abnormal Psychology

A general introduction to psychopathology. Various theoretical models will be

*Not to be given in 1967-68.

discussed. The techniques and findings of research, both clinical and experimental, will be emphasized. *Mr. Maher*

***PSYCHOLOGY 135a. Psychoanalytic Theory in Application**

PSYCHOLOGY 137b. Personality

Selected personality variables and how they have been investigated. Topics will be studied so as to show their relationship to influential psychological theories.

Enrollment limited to 15.

To be announced

PSYCHOLOGY 138b. Theories of Personality

A survey of current personality theories, both major and minor. Their implications for research and the nature of investigative findings will be discussed. General consideration will be given to problems of theory construction in the field of personality. *Mr. Maher*

***PSYCHOLOGY 139a. The Self and Identity**

***PSYCHOLOGY 140a. Learning and Behavior**

PSYCHOLOGY 141a. Biological Bases of Motivation

Topics to be treated include hunger, thirst, migration, sexual behavior. Evidence from biology, neurophysiology, and endocrinology will be evaluated.

Enrollment limited to 15.

Mr. Wodinsky

PSYCHOLOGY 142b. Psychosomatics

The interrelationships of psychological, social, and cultural factors in physical disease. Topics include psychophysiological mechanisms in disease, physiological correlates of mental disease, and "somato-psychic problems." *Mr. Giddon*

PSYCHOLOGY 143b. Cognitive Processes

Experiments in human learning, thinking and problem solving.

Prerequisite: Psychology 50b or permission of the instructor.

Enrollment limited to 15.

Mr. Maher

PSYCHOLOGY 144b. The Psychology of Language

Language development; names, concepts, and symbols; expressive language; metaphor; grammar and syntax; problems of translation; pathology of language.

Enrollment limited to 15.

Miss Simmel

PSYCHOLOGY 145a. Psychopathology in Childhood

Theoretical and therapeutic implications of disorders in childhood, focusing on mental retardation and childhood psychosis.

Enrollment limited to 15.

Mr. Schnall

PSYCHOLOGY 146a. Psychopathology and Cognition

Alterations of perceptual and conceptual processes in schizophrenia, in brain injury, under the influence of drugs, and under conditions of so-called sensory isolation.

Enrollment limited to 15.

Miss Simmel

PSYCHOLOGY 147b. Systematic Psychology*PSYCHOLOGY 150b. The Psychology of Religious Experience**

A study of selected examples of religious experience, both contemporary and historical.

Prerequisite: Upperclass standing. Enrollment limited to 15.

Mr. Klee

PSYCHOLOGY 152a. Group Dynamics

A consideration of classical and current approaches to the study of human interaction. Topics will include: history of group dynamics; conformity; obedience; group cohesiveness; social communication; social deviance; group affiliation; social determinants of emotion, etc.

Enrollment limited to 15.

Mr. Fadiman

PSYCHOLOGY 153b. Developmental Approaches to Cognition**PSYCHOLOGY 154a. The Psychology of Personal Constructs****PSYCHOLOGY 155a. Advanced Educational Psychology**

Dynamic psychology as applied to educational practice.

For seniors enrolled in the Education Program or others with the consent of the instructor.

Enrollment limited to 15.

Mr. Andrews

PSYCHOLOGY 156b. Verbal Learning and Memory*PSYCHOLOGY 159b. Perception**

A survey of the field of perception with emphasis on theory and mechanism. The interrelationship of perception and personality, phenomenology, social factors, and sensory processes will be discussed.

Enrollment limited to 15.

Mr. Stecher

See Graduate School catalog for courses numbered 200 and above.

Romance Languages and Comparative Literature

See Page 113.

Russian Language and Literature**Requirements for Concentration**

A. Required of all Candidates: Russian 3aR, 106bR, 117b, 161b.

B. For those majoring in literature: five additional semester courses in Russian literature above Russian 10.

C. For those majoring in linguistics:

1. Anthropology 102a and b (Introduction to Linguistics) or equivalent.

2. Two semester courses in Russian literature above Russian 10.

3. Russian 97c (Tutorial in Slavic Linguistics).

4. Russian 112b.

*Not to be given in 1967-68.

D. Two year courses from related areas, subject to approval of Coordinator or the Chairman.

E. Additional Requirement for candidates for degrees with distinction: Russian 99.

Russian 1 and 2 are full year courses and may not be dropped with credit at midyear.

RUSSIAN 1. Introductory Russian *Staff*

RUSSIAN 1aA. Intensive Introductory Russian

Six hours. Not open to freshmen.

Prerequisite: Permission of the instructor. *Mr. Gribble*

RUSSIAN 2. Intermediate Russian

Prerequisite: Russian 1, appropriate placement score, or permission of the instructor. *Staff*

RUSSIAN 3aR. Intermediate Conversation and Composition

Prerequisite: Permission of the instructor. *Staff*

RUSSIAN 5a. Accelerated Second Year Russian

An intensive one-semester course for students whose placement score or performance in Russian 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman. *Staff*

RUSSIAN 10. Readings in Russian Literature

Prerequisite: Russian 2 or 5a, appropriate placement score, or permission of the instructor. *Mr. Szulkin*

RUSSIAN 97c. Tutorial

Prerequisite: Permission of the instructor. *Staff*

See Linguistics Program.

RUSSIAN 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

RUSSIAN 99. Senior Research

Students who are candidates for a degree with honors in Russian must register for this course and prepare an honors thesis under faculty direction. *Staff*

RUSSIAN 106bR. Advanced Russian Conversation, Composition and Reading

Prerequisite: Russian 10 or permission of the instructor. *Mr. Gribble*

RUSSIAN 112aR. Theory of Language

Historical and comparative linguistics.

Prerequisite: An introductory course in linguistics or permission of the instructor. *Mr. Gribble*

***RUSSIAN 112b. Theory of Language**

To be given in alternate years.

*Not to be given in 1967-68.

*RUSSIAN 117b. Pre-Nineteenth Century Russian Literature

RUSSIAN 120b. The Long Poems by Pushkin

Prerequisite: Russian 10 or permission of the instructor.

Mr. Szulkin

RUSSIAN 138a. Nineteenth Century Prose, excluding Tolstoy and Dostoevsky

Prerequisite: Russian 10 or permission of the instructor.

Mr. Szulkin

*RUSSIAN 139a. Nineteenth Century Poetry, excluding Pushkin

To be given in alternate years.

RUSSIAN 141b. The Russian Short Story

Survey of the Russian short story from the nineteenth century to the present.

Prerequisite: Russian 10 or permission of the instructor.

Mr. Szulkin

*RUSSIAN 145b. Dostoevsky

To be given in alternate years.

*RUSSIAN 146a. Tolstoy

To be given in alternate years.

RUSSIAN 147a. Slavic Drama

History and development of Slavic drama in the nineteenth and twentieth centuries. Special emphasis on the development of Russian and Polish drama. Polish and other non-Russian plays will be read in translation.

Prerequisite: Russian 10 or permission of the instructor.

Mr. Szulkin

*RUSSIAN 149aR. Soviet Literature

To be given in alternate years.

*RUSSIAN 161b. The Structure of Modern Literary Russian

To be given in alternate years.

See Linguistics Program.

RUSSIAN 162b. Russian Fiction of the Nineteenth Century: Tolstoy and Dostoevsky

See Comparative Literature 162b.

Mr. Rahu

Sociology

Professor MAURICE R. STEIN, *Chairman*; Professors LEWIS A. COSER, EVERETT C. HUGHES, PAUL KECSKEMETI, MORRIS S. SCHWARTZ, KURT H. WOLFF; Associate Professors PHILIP E. SLATER, ROBERT S. WEISS; Assistant Professors FREDERICK F. ABRAHAMS, JEROME BOIME, GORDON A. FELLMAN (*Undergraduate Student Adviser*), CHARLES S. FISHER, ROSABETH M. KANTER, LARRY ROSENBERG, B. ZVI SOBEL, SAMUEL E. WALLACE, IRVING K. ZOLA (*Graduate Student Adviser*).

Requirements for Concentration

Required of all Candidates: Eight semester courses in Sociology, plus two semesters, above the introductory level, in other departments in the School of Social Science, plus Sociology 97c. Honors candidates take an additional course, Sociology 99.

*Not to be given in 1967-68.

SOCIOLOGY 2a. History of Sociological Theory

A synopsis of political and social thought from Greeks to the modern period, with emphasis on their relevance for modern political and sociological analysis.

Mr. Kecskemeti

SOCIOLOGY 3a. Modern Sociological Theory

Sociological theories in historical perspective. Theoretical insight and empirical investigation. Readings of sociological classics and recent monographs. *Mr. Wolff*

SOCIOLOGY 3aR. Modern Sociological Theory

Mr. Coser

SOCIOLOGY 4a. Basic Concepts and Orientations in Sociology

Main areas of present-day sociological investigation. Guiding concepts such as social norms, status and role, interaction, social structure and function. *Mr. Coser*

SOCIOLOGY 5a. Sociology and Social Institutions

Mr. Sobel

SOCIOLOGY 6b. Concepts of the Social Order

Analysis of fundamental categories by reference to social position; status, role, and class; and, on the other hand, by regard to concepts of transposition: competition, conflict, and violence.

Mr. Boime

SOCIOLOGY 7b. A Basic Survey of Sociology

A selection of central themes in sociology studied in their original presentations and contrasted with some recent criticisms.

Mr. Fisher

SOCIOLOGY 8a. Social Psychology: Controls on Social Behavior

An examination of those interpersonal forces that exert control over man's behavior in social situations: identity formation, experience management, symbolic interaction, "social reality," interpersonal influence and social power, and the organization of society with respect to resources, opportunities, and group memberships. The notions of free will and conformity will be reconceptualized in the light of material presented in this course.

Mrs. Kanter

SOCIOLOGY 9b. Ethnographic Studies in Social Organization

Field work studies of small scale human communities will be used to introduce the students to fundamental concepts and principles of sociology. The ethnographies will include studies of factories, hospitals, primitive villages, small towns, etc.

Mr. Rosenberg

SOCIOLOGY 10b. Introduction to Sociological Inquiry

How do sociologists, economists, historians, and psychologists differ in their patterns of thought and inquiry into social behavior? Special attention will be focussed on the paradox between life styles appropriate in small face-to-face groups and those appropriate in an organizational context.

Mr. Abrahams

SOCIOLOGY 97c. Tutorial in Sociology

Required readings, research, reports and discussions on assigned topics.

For seniors only.

Messrs. Stein, Fellman, Zola, and Staff

SOCIOLOGY 98a,b. Readings and Research in Sociology

Readings and reports under the direction of a faculty supervisor.

Staff

SOCIOLOGY 99. Senior Research

Seniors who are candidates for degrees with honors in sociology are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic. *Staff*

For Undergraduate and Graduate Students**SOCIOLOGY 101a. Sociology of Conflict and War**

The functions of social conflict in different types of societies and different institutional settings, in large social structures and smaller groups. Racial and ethnic conflicts, marital conflicts, political conflicts, war. *Messrs. Coser and Wallace*

***SOCIOLOGY 102b. Social Psychiatry**

To be given in 1968-69.

SOCIOLOGY 103a. Sociology of Religion

Sociological analysis of contemporary and historical religious institutions and experiences. Religious leadership and followership; conversion, sect, denomination, and church; religion, society, and politics; leading contemporary schools of theology. *Mr. Sobel*

SOCIOLOGY 105b. Sociology of Modern Anti-Semitism

Sociological analysis of contemporary forms of anti-Semitism. Various theories (both past and present) attempting to explain the phenomenon will be critically examined.

Admission with consent of the instructor.

Mr. Sobel

SOCIOLOGY 106b. Sociology of Literature

The relations between society and literary forms in selected historical periods. Emphasis on the relations between problems and methods in inquiry as presented by sociological and humanistic students of man.

Admission by permission of the instructor only.

Mr. Stein

SOCIOLOGY 107b. Advanced Social Psychology

Human behavior from a combined psychodynamic and sociological point of view; with special emphasis on socialization and the relations between the individual and the collectivity.

Admission by consent of the instructor only.

Mr. Schwartz

SOCIOLOGY 109b. Social Causation

The nature and significance of causal inquiry, especially into social phenomena. Explanation, understanding, interpretation. Case study and generalization. Social causation and social change. *Mr. Wolff*

SOCIOLOGY 110a. Sociology of Knowledge

History and historical interpretation of the sociology of knowledge, with particular emphasis on German and recent American literature. *Mr. Wolff*

*Not to be given in 1967-68.

SOCIOLOGY 111a. Political Sociology

A detailed analysis of a few selected problems in political sociology. Among the possible problems discussed are the following: community power structures, the relationship of conflict and consensus to political stability and change, political institutions intervening between the rulers and the ruled, impact of bureaucratic organization on democratic political forms, and political movements—right, left, and center.

Mr. Abrahams

SOCIOLOGY 112b. Social Stratification

Bases of stratification and types of class systems. Variables which place an individual within a class, mobility between classes, influences of class subcultures on the personality; the dynamics of change in social class systems.

Mr. Fellman

SOCIOLOGY 115b. Sociology of the American Churches

The major sociological and theological characteristics of the American churches, church membership and church organization; the relationship of the churches to the power structure and to each other; Catholics and Jews; the "majority" churches in a pluralistic society.

Mr. Sobel

SOCIOLOGY 116b. Multi-Ethnic Societies

Comparative study of multi-racial (cultural, ethnic, religious) societies in various parts of the world, but with emphasis on the U.S.A. Their structures; problems and conflicts of personal identity; relations among people of various categories; ideologies; conflict, movements, and change.

Mr. Hughes



SOCIOLOGY 117a. Sociology of Work and Occupations

A comparison of work and occupational systems in various cultures. Social organization of occupations and the place of work in the life of the individual.

Mr. Hughes

SOCIOLOGY 122a. Sociology of Power

An analysis of the consolidation and disaffection of political interaction, obedience and ideology, proceeding on the assumption that the political problem designates a tension between the inhibition and release of alternative forms of community.

Mr. Boime

SOCIOLOGY 123a. Ideology of Social Movements

Effect of political events and social processes on political thought and action in the twentieth century. Social functions of political ideologies. Structure and orientation of organizations intending to cause social change.

Mr. Kecskemeti

*SOCIOLOGY 125a. Quantitative Methods in Research

To be given in 1968-69.

*SOCIOLOGY 126a. Sociology of Deviance

To be given in 1968-69.

*SOCIOLOGY 126b. The Institutions of Social Control

To be given in 1968-69.

*SOCIOLOGY 130a. The Family

To be given in 1968-69.

SOCIOLOGY H131a. Israel Social Institutions (Hiatt Program in Israel)

Demography, immigration, the native born and the Arabs, pre-state institutional structure; absorption of immigrants, the second generation; changes in institutional structure and social policy; special problems including ethnic settlement, status and stratification, cultural policy. 4 credits.

Mr. Spivak

*SOCIOLOGY 132b. American Social Patterns

*SOCIOLOGY 135a. Group Process

*SOCIOLOGY 135b. Advanced Group Process

To be given in 1968-69.

SOCIOLOGY 140a. Population and Human Ecology

An exploration of the theoretical bases involved in the demographic transition from pre-modern to modern conditions of fertility, mortality, and rate of population growth. Emphasis will be given to the actual demographic history of the component parts of the Western World and Japan, together with coverage of the population control programs in underdeveloped nations. The course will also provide an introduction into various techniques of demographic analysis, such as life tables, standardization systems, crude and age-specific rates, cohort fertility, and censuses.

Mr. Lazerwitz

*Not to be given in 1967-68.

SOCIOLOGY 142a. Social Psychology
(formerly 14a)

Implications of the psychoanalytic view of personality for the nature and functioning of social institutions, social change, and the possibilities of utopia.

Mr. Fellman

SOCIOLOGY 143a. Social Interaction

The social organization of face-to-face contact. Readings will stress material concerned with the various communication arrangements and ecological features of social gatherings.

Mr. Rosenberg

SOCIOLOGY 144b. Kinematics of Social Organization

The initiation, maintenance, and cessation of human activity as expressed by the movement of persons through space and time viewed from the perspective of social organization.

Mr. Rosenberg

SOCIOLOGY 145a. Sociology of Life Styles

Examination of patterns of living in society with focus upon the influences which lead individuals into one route rather than another, the constellation of behaviors characteristic of several distinct styles, the interconnections between styles, and their meaning for modern society. Both approved as well as disapproved styles will be examined.

Mr. Wallace

SOCIOLOGY 146b. Sociology of Poverty

Poverty as viewed from sociological, economic, psychiatric, and political perspectives. Focus will be on poverty in mid-twentieth century America. The interrelationships between poverty, economic development, political structure, and social relationships. Different approaches to reducing poverty: welfare programs, income redistributions, community action programs, "equality of opportunity" programs, and radical re-organization of society.

Mr. Abrahams

SOCIOLOGY 147b. Sociology of Organizations

The course will define organization, both formal and informal, and bureaucracy. It will then consider the forces which create, shape, and change social organizations, examining some of the factors which affect the number and types of organizations that exist, their size, who participates in them, and how they attempt to meet their goals. These include: historical time, the state of society, technology, the social base and clientele, leadership, and organizational needs for resources and personnel. The course will discuss the difficulties that stand between a goal or an ideal and attaining it via an organization. The process of bureaucratization in civil rights organizations will be used as a case for analysis.

Mrs. Kanter

SOCIOLOGY 150a. Sociology of Generations

This course is designed to explore the extent to which social phenomena can be understood in terms of generational cleavages and congruencies. The analysis will be largely restricted to highly industrialized modern societies, though some attempt will be made to trace past historical changes in the relationship between generations in these societies. Particular attention will be paid to the roles played by technology, education, vocation, socialization, and fashion in accentuating or attenuating generational conflicts.

Mr. Abrahams

SOCIOLOGY 151b. Environmental Research

Research in environments selected for study utilizing a multiplicity of instruments including questionnaires, interviews, diaries, case histories, tape recorders, photographs, films, and other related media. *Mr. Wallace*

SOCIOLOGY 152b. Field Research

The examination, study and application, under close supervision, of the methodology of participant observation. *Mr. Miller*

SOCIOLOGY 154a. Sociology of Science

A critical discussion of science as a social activity occurring in various settings. Also an examination of some of the different ways philosophers, sociologists, historians, and scientists have described science. *Mr. Fisher*

SOCIOLOGY 155a. Sociology of Collective Behavior

Sociological analysis of rumor, the relationship between public events and their reconstructions, popular heroes, and political demonstrations. *Mr. Fisher*

SOCIOLOGY 169a. Religion and Ethnicity in American History

See American Civilization 169a.

Mr. Fuchs

***SOCIOLOGY 170b. Americans Overseas**

See American Civilization 170b.

SOCIOLOGY 190b. Social Organization of Medical Settings

An analysis of the structural arrangements of medical practice and of medical settings. Problems of communication and role relationships among professionals and between patients and medical personnel will be examined. The impact of structures and role relationships on quality and quantity of medical care and on use of resources will be analyzed. *Messrs. Zola, Hughes, Schwartz*

SOCIOLOGY 191a. Health, Community, and Society

The interrelationships of the nature of society and societies on the existence and treatment of health and illness. Conceptions of health and illness, patient careers, and the place of social science in medicine. *Mr. Zola*

***SOCIOLOGY 192. Sociology of the Medical Professions**

To be given in 1968-69.

SOCIOLOGY 193b. Demographic, Ecological, and Economic Factors in Medical Care

The problems of population and demographic changes on health, and the impact of urbanization and of changes in community life on medical care will be considered. Community health programs and the current emphases of public health practice will be described. The structure and provision of health services in other cultures will be considered and compared with those in the U.S.

Mr. Richardson

*Not to be given in 1967-68.

SOCIOLOGY 194. Methods of Social and Economic Research in Medical Care

The utility and application of sociological, economic, and epidemiological methods will be discussed. Problems of measurement, design, and analysis will be examined as well as the practical problems in implementing studies in the field of medical care.

Mr. Freeman

SOCIOLOGY 195. Field Work in Medical Settings

Credit hours to be arranged.

Mr. Miller

See Graduate School catalog for courses numbered 200 and above.

Spanish Language and Literature

Requirements for Concentration

A. Required of all Concentrators: Spanish 3a or 3b, 97c, 106b, 120, 140aR, 150aR, and one year course chosen from Spanish course offerings above Spanish 10.

B. One year course chosen from the following: Comparative Literature 116b, 145a, 145b, 181bR; Spanish 112a,b.

C. Two year courses from the School of Humanities except logic or composition.

D. Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional Requirement for candidates for degrees with distinction: Spanish 99.

Spanish 1 is a full year course and may not be dropped with credit at midyear.

Spanish 10 may be divided with the permission of the Coordinator or the Chairman.

SPANISH 1. Introductory Spanish

Staff

***SPANISH 3a. Intermediate Conversation and Composition**

To be given in 1968-69.

SPANISH 3b. Advanced Conversation and Composition

Prerequisite: Spanish 5a or permission of the instructor.

Staff

SPANISH 5a and 5aR. Accelerated Second Year Spanish

An intensive one-semester course for students whose placement score or performance in Spanish 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Staff

SPANISH 10. Readings in Spanish Literature

Prerequisite: Spanish 5a, appropriate placement score, or permission of the instructor.

Staff

***SPANISH 97c. Tutorial**

To be given in 1968-69.

**Not to be given in 1967-68.*

SPANISH 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

SPANISH 99. Senior Research

Students who are candidates for a degree with honors in Spanish must register for this course and prepare an honors thesis under faculty direction.

Staff

***SPANISH 106b. Studies in Advanced Spanish Conversation and Composition**

To be given in 1968-69.

SPANISH 112aR. Theory of Language

Historical and comparative linguistics.

Prerequisite: An introductory course in linguistics or permission of the instructor.

Mr. Gribble

***SPANISH 112b. Theory of Language**

To be given in 1968-69.

***SPANISH 120. Cervantes**

To be given in 1968-69.

SPANISH 123a. The Sixteenth Century

Prerequisite: Spanish 10 or permission of the instructor.

Mrs. Rose

***SPANISH 125aR. The Seventeenth Century**

To be given in 1968-69.

SPANISH 130aR. Nineteenth Century Spanish Literature

Prerequisite: Spanish 10 or permission of the instructor.

Mrs. Lida

SPANISH 140aR. Spanish Lyric Poetry

Prerequisite: Spanish 10 or permission of the instructor.

Mr. Yglesias

SPANISH 150aR. Spanish Drama of the Siglo de Oro

Prerequisite: Spanish 10 or permission of the instructor.

Mrs. Lida

***SPANISH 160a. Latin American Literature: Major Trends**

To be given in 1968-69.

***SPANISH 160b. Latin American Literature: The Revolution**

To be given in 1968-69.

SPANISH 162a. Studies in Argentine and Brazilian Literature

Prerequisite: Spanish 10 or permission of the instructor.

Mr. Duffy

***SPANISH 170bR. The Generation of 1898**

To be given in 1968-69.

SPANISH 180bR. Twentieth Century Spanish Literature

Prerequisite: Spanish 10 or permission of the instructor.

Miss Collard

*Not to be given in 1967-68.

Theater Arts

Professor HOWARD BAY, *Chairman and Director of Theater Program*; Professors MORRIS CARNOVSKY, DAVID K. HARDY, LOUIS KRONENBERGER, EDWIN BURR PETTET; Associate Professors JAMES H. CLAY, MARTIN HALPERN (*Student Adviser*), JOHN F. MATTHEWS, CHARLES W. MOORE, N. RICHARD NASH; Assistant Professors BARBARA B. ANDERSON, DOUGLAS MADDOX, PATRICIA REYNOLDS; MR. JAN KESSLER, MR. PETER M. SANDER, MISS ANNE TOLBERT.

Artists-in-Residence: MR. MATT CONLEY, MISS VANYA FRANCK, MR. PETER MACLEAN, MR. MERVYN WILLIAMS.

Requirements for Concentration

A. All concentrators must complete seven year courses in the department.

B. Theater Arts 1, 2 and 112a are required. In addition, all concentrators must complete four semester courses in dramatic literature and criticism numbered over 110.

C. With the adviser's permission, certain courses offered in other departments may be applied to the requirements for concentration.

D. All concentrators are required to serve on the production crews of departmental productions twice in the sophomore year, once in the junior and once in the senior year.

E. The award of departmental distinction will be conferred by the staff for outstanding scholarship or creativity.

THEATER ARTS 1. Introduction to Drama and the Theater

A survey of dramatic literature and theory from the Greeks to the present day.

Open to freshmen.

Mr. Pettet

THEATER ARTS 2. Physical Production

Four classroom hours per week plus participation in the production crews of two of the year's departmental productions. 8 credits. Normally taken by concentrators in their sophomore year.

Messrs. Bay and Maddox, Mrs. Anderson

THEATER ARTS 3. Acting

Four classroom hours per week.

Open to freshmen with permission of the instructor.

Messrs. Moore and Sander

THEATER ARTS 5. Speech Studies for the Actor

Miss Reynolds

THEATER ARTS 7. Dance

Miss Tolbert

THEATER ARTS 9. Mime

Mr. Kessler

THEATER ARTS 12. Film Workshop

An intensive course in film production from concept to final prints including treatment, writing, photography, lighting, sound recording, editing, sound mixing, and laboratory procedure and cinemagraphic objectives. Students will work in small units to produce films for release in the fields of education and public television. Enrollment by permission of instructor only.

Mr. Hardy

THEATER ARTS 22. Scene and Costume Design

Messrs. Bay and Maddox, Mrs. Anderson

THEATER ARTS 33. Advanced Acting

Prerequisite: Theater Arts 3 and the permission of instructor.*Messrs. Carnovsky, Moore and Sander*

THEATER ARTS 97a,b. Tutorial

Staff

THEATER ARTS 98. Independent Study

Students may elect either a research project, a production project, or a combination of the two. Approval by the staff must be obtained at the end of the junior year. A University average of B is prerequisite.

Staff

THEATER ARTS 102. Directing

Prerequisite: Theatre Arts 3.*Mr. Sander*

THEATER ARTS 103a. Advanced Directing

Prerequisite: Theater Arts 102 and the permission of instructor. *Mr. Moore*

THEATER ARTS 104. Playwriting

Mr. Matthews

THEATER ARTS 105. Advanced Playwriting

Prerequisite: Theater Arts 104 and the permission of the instructor. *Mr. Nash*

THEATER ARTS 112a. Theater History

Taught largely through representative productions from the classical era to the present. The basic aspects of the theater—audience, actor, script, scenery, theater building are considered as components of a single art.

Mr. Clay

For Undergraduate and Graduate Students

THEATER ARTS 115a. Restoration Comedy

A study of classic English comedy, chiefly of the Restoration—Etherege, Wycherley, Dryden, Congreve, Vanbrugh. Opening with the great Restoration ancestor, Ben Jonson, the course continues into the eighteenth century of Goldsmith and Sheridan.

Two classroom hours per week. *Juniors and seniors only.* *Mr. Kronenberger*

*THEATER ARTS 115b. Modern Comedy

To be given in 1968-69.

*THEATER ARTS 121a. Shaw and His Contemporaries

To be given in 1968-69.

THEATER ARTS 121b. Restoration Drama

*See English 125b.**Miss Staves*

THEATER ARTS 122a. Modern Drama

The major European dramatists from the mid-nineteenth century through the 1920's, including Ibsen, Strindberg, Chekhov, Synge, Yeats, Shaw, O'Casey, and Pirandello.

*Mr. Halpern***Not to be given in 1967-68.*

THEATER ARTS 123b. Contemporary Drama

Continental, British, and American dramatists from the 1920's to the present, including Brecht, Lorca, Giraudoux, Sartre, Beckett, Ionesco, Genet, Eliot, Deuren-matt, O'Neill, and Albee. *Mr. Halpern*

THEATER ARTS 124a and 124aR. Shakespeare

See English 3a and 3aR. Messrs. Cunningham, Levitan and Edelstein

THEATER ARTS 125a. History of the American Drama

A study of the American theater from its beginnings to the First World War. *Mr. Clay*

THEATER ARTS 125b. History of the American Drama

A study of the American theater from the First World War to the present. *Mr. Clay*

THEATER ARTS 132b. Dramatic Theory and Criticism

A study of dramatic criticism from Aristotle to the present. An investigation into the development of dramatic theory seen through the records of critical observers.

Juniors and seniors only. Mr. Clay

THEATER ARTS 133a. Seminar in the Writing of Drama Criticism

Students will begin by writing newspaper-length reviews, in most cases covering actual productions; and will go on to criticism at a superior-magazine level.

Mr. Kronenberger

***THEATER ARTS 133b. The Popular Arts**

To be given in 1968-69.

THEATER ARTS 140a and b. Introduction to Film

An inquiry into the principles and theory of motion picture and its uses in education, television and the cinema. The course will examine many types of film including documentaries, features, propaganda and advertising with emphasis on film history. *Mr. Hardy*

THEATER ARTS 151. Tragedy

An inquiry into the nature of tragic drama based on the study of plays and theories appropriate to the subject. Various ancient and modern attitudes toward the problems of tragedy will be explored through reading and discussion of works by Sophocles, Shakespeare, O'Neill, Anderson, etc., as viewed from the perspective of Aristotle, Hegel, Nietzsche, Schopenhauer and others.

Juniors and seniors only. Mr. Matthews

THEATER ARTS 152b. Comedy

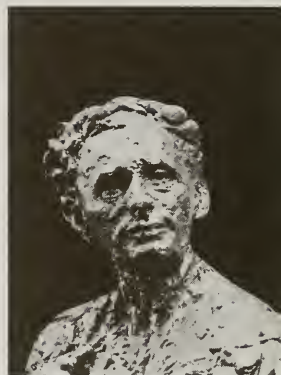
An investigation into the phenomenon of laughter in the context of the theater's comic form: farce, comedy, parody, burlesque, and satire. *Mr. Pettet*

See Graduate School catalog for courses numbered 200 and above.

*Not to be given in 1967-68.



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••On Leave, Fall Term, 1967-68.

•••On Leave, Spring Term, 1967-68.

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 Thomas R. Tuttle, Jr., M.S., Ph.D.
 Milton I. Vanger, M.A., Ph.D.
 John van Heijenoort, M.S., Ph.D.
 Helen Van Vunakis, B.A., Ph.D.
 (on a Research Cancer Award, National Institutes of Health)
 John J. Viertel, M.A.
 William R. Vitale, M.A., Ph.D.
 Phillip D. Wagreich, B.A., Ph.D.
 Samuel E. Wallace, M.A., Ph.D.
 Kenneth N. Waltz, M.A., Ph.D.
 Aileen Ward, M.A., Ph.D.
 Richard S. Weckstein, M.A., Ph.D.
 (on the Carl Marks Foundation)
 Moshe Weinfeld, M.A., Ph.D.
 (Jewish Theological Seminary)
 Alex Weingrod, M.A., Ph.D.
 Harold Weisberg, B.A., Ph.D.
 *Robert S. Weiss, M.A., Ph.D.
 Raymond O. Wells, Jr., M.S., Ph.D.
 Chung-chi Wen, B.A., M.A.
 David S. Wiesen, A.B., Ph.D.
 John Burt Wight, Ed.M., Ed.D.
 Arthur Wingfield, M.A., Ph.D.
 Jerome Wodinsky, B.A., Ph.D.
- Assistant Professor of English*
Assistant Professor of Psychology
Associate Professor of Chemistry
Professor of Sociology
Assistant Professor of Biology
Professor of Chemistry
Assistant Professor of Classics
Lecturer in Politics
Professor of Biology
Associate Professor of English
Professor Emeritus of Humanities
Professor of Biology
Assistant Professor of Russian
Assistant Professor of French
Associate Professor of History
Professor of Biochemistry
Associate Professor of Music
Instructor in History
Instructor in Dance
Professor of Philosophy
Visiting Associate Professor of Chemistry
Associate Professor of Music
Instructor in Italian
Associate Professor of Chemistry
Associate Professor of History
Professor of Philosophy
Associate Professor of Biochemistry
Visiting Assistant Professor of German
Instructor in Chemistry
Lecturer in Mathematics
Assistant Professor of Sociology
Adlai E. Stevenson Professor of
International Politics
Professor of English
Associate Professor of Economics
Visiting Associate Professor of Semitic Languages
Associate Professor of Anthropology
Professor of Philosophy
Associate Professor of Sociology
Visiting Assistant Professor of Mathematics
Assistant Professor of History
Associate Professor of Classics
Lecturer in English
Assistant Professor of Psychology
Associate Professor of Psychology

*On Leave, 1967-68.

Sanford E. Wolf, S.B., M.A.
 Kurt H. Wolff, Ph.D.
 Peter Woll, A.B., Ph.D.
 Luis E. Yglesias, B.A.
 George Zilzer, B.A., M.A.
 Harry Zohn, Ed.M., Ph.D.
 Irving K. Zola, B.A., Ph.D.
 Edgar Zwilling, M.A., Ph.D.

Assistant Professor of Physics
Professor of Sociology
Associate Professor of Politics
Assistant Professor of Spanish
Consultant in Music
Professor of German
Assistant Professor of Sociology
Professor of Biology

Hiatt Institute in Israel

Ernest Stock, Ph.D.

Director of the Hiatt Institute and
Lecturer in Politics

Yeheskel Dror, Ph.D.

Visiting Lecturer in Politics

Mordecai Kamrat, Ph.D.

Director of Hebrew Studies

Baruch Mevorach, Ph.D.

Visiting Lecturer in Modern Jewish History

Mark Spivak, Ph.D.

Visiting Lecturer in Social Institutions

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Arthur Berger, *Walter W. Naumburg Professor of Music*
 National Council on the Arts Grant

Joseph S. Berliner, *Harold J. Silver Professor of Economics*
 Ford Foundation Faculty Research Fellowship and National Science
 Foundation Grant

Paul H. Brainard, *Associate Professor of Music*
 Fulbright Grant to Germany

J. V. Cunningham, *Paul E. Prosswimmer Professor of English*
 Guggenheim and National Council on the Arts Fellowships

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 Guggenheim Fellowship

Gerald D. Fasman, *Professor of Biochemistry*
 Protein Institute, University of Osaka, Japan

Creighton Gilbert, *Sidney and Ellen Wien Professor of the History of Art*
 Kress Fellow, Harvard Center for Italian Renaissance Studies, Florence

Sidney Golden, *Henry F. Fischbach Professor of Chemistry*
 Hebrew University, Jerusalem, Israel

Benjamin Halpern, *Associate Professor of Near Eastern Studies*
 Visiting Professor, Tel Aviv University, Israel

Eugenia Hanfmann, *Professor of Psychology*
 Fellowship, Cambridge Center for Research in the Behavioral Sciences

Louis Kronenberger, *Professor of Theater Arts*
 Scholar-in-Residence, University of California, Berkeley

Kenneth Kustin, *Associate Professor of Chemistry*
 University of California, Berkeley

Baruch A. Levine, *Associate Professor of Hebrew Literature*
 National Foundation on the Arts and Humanities Grant for Israel

Jerome P. Levine, *Associate Professor of Mathematics*
Institute of Advanced Study, Princeton

Abraham H. Maslow, *George and Frances Levin Professor of Psychology*
Ford Foundation Grant

Teruhisa Matsusaka, *Professor of Mathematics*
National Science Foundation Grant to Tata Institute, Bombay, India

Philip Rahv, *Professor of English*
Distinguished Visiting Professorship, University of Wisconsin

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Associate Professor N. C. Brandwein, *Chairman*; N. N. Glatzer (NEJS), Cyrus H. Gordon (Mediterranean Studies), Victor Harris (English), Murray Sachs (Romance Languages), Frederic T. Sommers (Philosophy), David S. Wiesen (Classics), Harry Zohn (Germanic and Slavic Languages).

Science

Professor Ernest Grunwald, *Chairman*; Martin Gibbs (Biology), Jack S. Goldstein (Physics), Nathan O. Kaplan (Biochemistry), Richard S. Palais (Mathematics), Myron Rosenblum (Chemistry).

Social Science

Professor Roy C. Macridis, *Chairman*; Leonard W. Levy (History), Norton E. Long (Politics), Robert A. Manners (Anthropology), Ricardo B. Morant (Psychology), Maurice R. Stein (Sociology), Richard S. Weckstein (Economics).

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Alice J. Adler, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Toyoo Aikawa, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Barkev Bablouzian, B.S.	<i>Research Associate in Biochemistry</i>
Pradip M. Bakshi, Ph.D.	<i>Research Associate in Physics</i>
Frank C. Bancroft, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Geoffrey Banks, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
C. David Bell, M.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Linda L. Bertland, Ph.D.	<i>NIH Postdoctoral Fellow in Biochemistry</i>
Arnold I. Caplan, B.S.	<i>Postdoctoral Fellow in Biochemistry</i>
George Cardinale, Ph.D.	<i>Senior Research Assistant in Biochemistry</i>
Sandra Chasalow, Ph.D.	<i>NIH Postdoctoral Fellow in Biochemistry</i>
Sergio M. Cocucci, Ph.D.	<i>Postdoctoral Fellow in Biology</i>
Allan Colter, Ph.D.	<i>Senior Postdoctoral Fellow in Chemistry</i>
Matt Conley	<i>Artist-in-Residence, Theater Arts</i>
Thor Dahl, Ph.D.	<i>Postdoctoral Fellow in Chemistry</i>
Betty Davidson, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Geoffrey Davies, Ph.D.	<i>Postdoctoral Fellow in Chemistry</i>
Francis J. DeToma, M.Sc.	<i>Postdoctoral Fellow in Biochemistry</i>
Sam T. Donta, M.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Charles Drake, B.D.	<i>Research Associate in Psychology</i>
James H. Eley, Ph.D.	<i>NIH Postdoctoral Fellow in Biology</i>
James Ellingson, Ph.D.	<i>Postdoctoral Fellow (Trainee) in Biology</i>
Robert Ellison, Ph.D.	<i>Postdoctoral Fellow in Chemistry</i>
James Erskine, Ph.D.	<i>Postdoctoral Fellow in Physics</i>
James E. Estes, Ph.D.	<i>Postdoctoral Fellow in Biology</i>
Murray Ettinger, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Ronald H. Felton, Ph.D.	<i>Postdoctoral Fellow in Chemistry</i>
Robert Finch, Ph.D.	<i>Postdoctoral Fellow (Trainee) in Biology</i>
Dodd-Wing Fong, M.S.	<i>Postdoctoral Fellow in Chemistry</i>
Vanya Franck	<i>Artist-in-Residence, Theater Arts</i>
Dorothy Freifelder, Ph.D.	<i>Postdoctoral Fellow in Biochemistry</i>
Norman L. Friedman, Ph.D.	<i>Postdoctoral Fellow in Philip W. Lown Institute of Contemporary Jewish Studies</i>

Robert Friedman, D.D.S.
 Benzion Fuchs, D.Sc.
 David A. Gardner, Ph.D.
 Christos Gatsonis, Ph.D.
 Nicholas Gillham, Ph.D.
 Marina J. Gournunoff, Ph.D.
 Silvio Greco, Ph.D.
 Bernard Green, Ph.D.
 Peniel Greenzaid, Ph.D.
 Harvey Herschman, Ph.D.
 Joseph I. Herskovits, M.D.
 Robert Hodson, Ph.D.
 Andrew Holowsinsky, Ph.D.
 Michael Hüfner, M.D.
 Arvind Inamdar, Ph.D.
 Muhammad Ishaq, M.Sc.
 John V. Israel, Ph.D.
 Robert Jaffe, Ph.D.
 Harry D. Kaloustian, M.D.
 John Kendrick-Jones, Ph.D.
 Suresh S. Kerwar, Ph.D.
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 Annette Krebs, M.A.
 Constance Leung, Ph.D.
 Alan S. Levi, Ph.D.
 James Lightbody, Ph.D.
 Helmut Link, Ph.D.
 Daniel D. Louie, Ph.D.
 Jackson Lynn, Ph.D.
 Peter MacLean, B.S., M.A.
 Inga Mahler, Ph.D.
 Isaac Maleh, Ph.D.
 Thomas Marshall
 Robert G. McDonald-Gibson, Ph.D.
 Terence G. Merrett, Ph.D.
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 Robert Middlebrook, Ph.D.
 Graeme Milne, Ph.D.
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 Donald Parker, Ph.D.
 Benjamin Payes, Ph.D.
 Meir Perl, Ph.D.
 Steven E. Pfeffer, Ph.D.
 Zvi Plaut, Ph.D.
 David Portsmouth, Ph.D.
 Michael Ramsay, Ph.D.
 Herbert C. Rose, Ph.D.
 Robert Roth, Ph.D.

Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Senior Research Associate in Biochemistry
Research Associate in Mathematics
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
NIH Postdoctoral Fellow in Biology
Visiting Senior Research Associate in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow (Trainee) in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biology
Postdoctoral Fellow in Biochemistry
Research Associate in Mathematics
Research Associate in Psychology
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Artist-in-Residence, Theater Arts
Senior Research Associate in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Research Associate in Astrophysics
Research Associate in Biology
Postdoctoral Fellow in Chemistry
Research Associate in Physics
Postdoctoral Fellow in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow (Trainee) in Biology

Joshua Rothenberg, M.A.

Raquel Rotman-Sussman, Ph.D.

Reva Rubenstein, Ph.D.

Barbara Sanborn, M.A.

Ramaswamy H. Sarma, Ph.D.

Hiroyasu Sato, Ph.D.

Jane M. Sayer, Ph.D.

Schimon Schichor, D.V.M.S.

Bernard Schimmer, Ph.D.

Marvin Schwalb, Ph.D.

Charlotte Green Schwartz, M.A.

Edna Seaman, Ph.D.

Harry Simmons, Jr., Ph.D.

David F. Singer, A.B.

Bolesh Skutnik, Ph.D.

Thomas St. Pierre, Ph.D.

Barrie Steer, Ph.D.

David G. Streeter, Ph.D.

Eva M. Szentkiralyi Szent-Gyorgyi, Ph.D.

Peter Claus Thieme

Walter Toman, Ph.D.

V. M. Vaidya

Marie-Louise Vastersavendts, Ph.D.

Roland von Fellenberg, Ph.D.

John A. Watson, Ph.D.

Lan Wei

Sandra Weinstein, Ph.D.

Richard Weisenberg, Ph.D.

Mervyn Williams

George B. Wisdom, Ph.D.

Frederick Wiseman, LL.B.

Rodney Wishnow, M.D.

Michael H. Zeldin, Ph.D.

*Senior Research Fellow in Institute of
East European Jewish Studies*

Research Associate in Biology

NIH Postdoctoral Fellow in Chemistry

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow in Chemistry

Postdoctoral Fellow in Biochemistry

Senior Research Associate in Biochemistry

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow (Trainee) in Biology

Research Associate in Sociology

Senior Research Associate in Biochemistry

NIH Postdoctoral Fellow in Chemistry

*Research Associate in Philip W. Lown Institute
of Contemporary Jewish Studies*

Research Associate in Chemistry

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow in Biology

Postdoctoral Fellow in Biochemistry

Research Associate in Biology

Postdoctoral Fellow in Chemistry

Senior Research Associate in Psychology

Postdoctoral Fellow in Chemistry

Research Associate in Mathematics

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow in Biochemistry

Postdoctoral Fellow in Chemistry

Postdoctoral Fellow in Chemistry

Postdoctoral Fellow in Biochemistry

Artist-in-Residence, Theater Arts

Postdoctoral Fellow in Biochemistry

Research Associate in Sociology

Postdoctoral Fellow in Biochemistry

Research Associate in Biology

Administration of the University

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President

Administrative Council

Clarence Q. Berger, A.M.

Peter Diamandopoulos, Ph.D.

Frederick L. Luddy, B.A.

Lester G. Loomis, M.B.A.

Philip Driscoll, A.M.

Charles I. Schottland, A.B.

Dean of University Planning and Development

Dean of Faculty, Arts and Sciences

Director of Admissions

Dean of Financial Affairs

Dean of Students

Dean of Heller Graduate School for

Advanced Studies in Social Welfare

Lawrence S. Finkelstein, M.A.	<i>Acting Dean of Graduate School and</i>
	<i>Associate Dean of Academic Administration, Arts and Sciences</i>
Sumner J. Abrams, P.E.	<i>Director of Plant Operations</i>
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Helena Fitzpatrick	<i>Resources Secretary to the President</i>
Lawrence J. Kane '57, A.B.	<i>Assistant to the President</i>
Robert F. Kelley '57, A.B.	<i>Director of Alumni Relations</i>
C. Ruggles Smith, M.A., LL.B.	<i>Special Assistant for Legal Counsel</i>
Mrs. Milton Steinberg, A.B.	<i>University Relations for New York City</i>
Marylou Buckley, B.A.	<i>Special Assistant</i>

University Planning and Development

Clarence Q. Berger, A.M.	<i>Dean</i>
Mary A. Scipione	<i>Executive Secretary to the Dean</i>
Emanuel Goldberg, M.A.	<i>Assistant Dean</i>
Harry M. Angelus, B.A., A.M.	<i>Assistant Director</i>
Verna Fine	<i>Assistant to the Dean</i>

ADULT EDUCATION

Marjorie Cotton	<i>Director</i>
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OFFICE OF ACADEMIC COMMUNICATION

S. Leonard Singer, M.S.	<i>Director</i>
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William C. Seitz, Ph.D.	<i>Director</i>
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Thomas H. Garver, M.A.	<i>Assistant Director</i>

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Arsene Davignon, B.S., M.A.	<i>News Writer</i>
Ralph Norman	<i>Photographer</i>
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Teacher

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Assistant Reference Librarian

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Inter-Library Loan Assistant

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Margaret Norden, M.L.S.

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Eli Schleifer, M.A., M.S.L.S.

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Jose Leone, M.S.L.S.

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Sylvia Milne, A.L.A.

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Dolores Sullivan, M.L.S.

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May Yang, M.R.E., M.S.L.S.

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Assistant to the Dean

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Director, Office of Student Financial Aid

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Aquatics Program

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K. C. Jones, B.A.

Basketball

Henry Harutunian

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Soccer

Norman Levine, M.S.

Track

Theodore Reese, M.Ed.

Wrestling

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 Charles H. Thomsen, A.B., A.M.
 Bernice Barres

Registrar
Assistant Registrar
Administrative Assistant

CHAPLAINS

Joseph Walsh, C.S.P.
 To Be Announced
 Albert Axelrad, M.A.

Brandeis Newman Club
Brandeis Student Christian Association
Brandeis B'nai B'rith Hillel Foundation

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Director

WIEN INTERNATIONAL SCHOLARSHIP PROGRAM

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 Betty Rodes

Assistant to the Director
Program Assistant

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 Zalman Ben-Sasson, M.S.

Director-in-Residence
Special Assistant for Recruitment
Director of Student Activities

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 Imogene Fish, A.M.
 Sally Hartshorne, A.B.
 Helen K. Kass, A.B.

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Assistant Director
Assistant to the Director
Administrative Assistant
Admissions Counselor
Admissions Counselor
Admissions Counselor

Florence Heller Graduate School For Advanced Studies in Social Welfare

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 Deeda Wharton
 Keitha H. Anderson
 Kermit K. Schooler, M.A., Ph.D.
 Myrna S. Weiner, B.A.

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Executive Secretary
Registrar
Executive Assistant
Director, Research Center
Administrative Assistant, Research Center

University Finance Office

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 Phyllis T. Arico

Dean
Administrative Assistant to the Dean

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 Beverly L. Fanning

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Assistant to the Director

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Administrative Assistant

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 Frank Dzalo

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Assistant to the Purchasing Agent

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 Eleanor Charter

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Personnel Assistant

DATA PROCESSING

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Manager

Business Administration

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 Marie Collins
 Samuel Rosenfield, B.S.
 Norman R. Grimm, A.B.
 Ruth Kelley
 Dorothy Merrill
 Steven Muhlfelder, B.S.
 Margaret Thomas, A.B.

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Assistant to the Director
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Campus Communications
Service Bureau Supervisor
Manager, Book Store
Assistant Manager, Book Store

Plant Operations

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Supervisor, Residence Halls
Head Groundsman
Chief Engineer, Boiler Plant
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Construction Coordinator
Construction Coordinator

University Health Services

Sprague W. Hazard, M.D.
 Florentino P. Pina, M.D.
 Ralph Mankowich, M.D.
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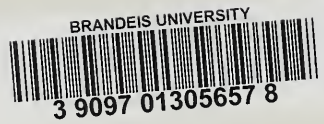
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